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.*

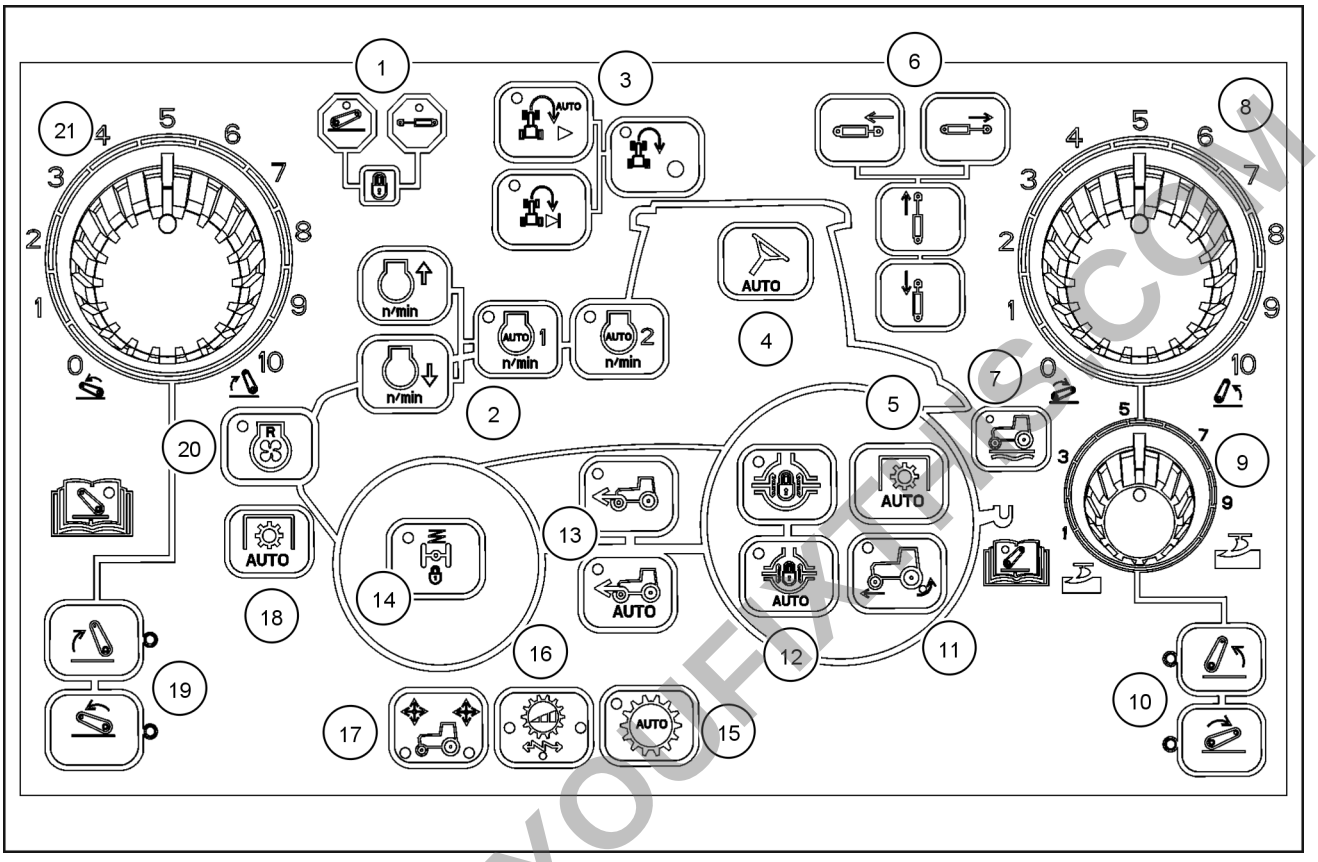
Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

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RIGHT-HAND SIDE CONTROLS

Integrated control panel



SVIL17TR03697FA 1

Your tractor is equipped with a number of electronic controls located on the arm rest unit. A full explanation of individual switch operation can be found in the relevant sections of this manual.

Right-hand control console

1. Electronic remote control valves and three-point hitch lock warning lights
2. Constant Engine Speed (CES) settings
3. Auto/manual HMC record/playback operation
4. Autoguidance function
5. Rear auto PTO control
6. Hydraulically adjusted top link and right-hand lift rod
7. Ride control
8. Rear three-point hitch position control
9. Rear three-point hitch draft loading control
10. Rear three-point hitch raise/lower switches and operating lights
11. Slip control
12. Auto/manual differential lock engagement
13. Auto/manual four wheel drive engagement
14. Front axle suspension lock
15. Transmission auto mode
16. Acceleration/deceleration rate control
17. Front/rear joystick selector switch
18. Front auto PTO control
19. Front hitch raise/lower switches and operating lights
20. Reversible engine fan control
21. Front hitch position control

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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.

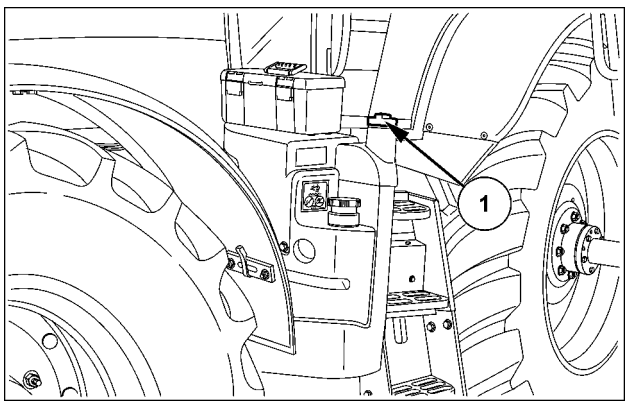
NOTE: *See your CASE IH dealer for replacement components and cleaning agents.*

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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MOVING THE UNIT

Operating in cold temperatures

To start and operate your tractor during ambient temperatures of **-1 °C** (**30 °F**) and below, observe the following instructions.

- Batteries — Ensure the batteries are fully charged and the terminals are clean and tight.
- Fuel — Must be clean and free of water. Consult your fuel supplier for cold weather fuel requirements in your area.
- Engine oil — Ensure the oil is the correct viscosity for the ambient temperature range. See page **7-10**.
- Transmission/hydraulic oil — Use low ambient temperature transmission oil. See page **7-10**.

NOTE: *If continuous operation is required in temperatures below* ***-28 °C*** *(****-18 °F****), change the transmission/hydraulic oil to one of a lower temperature rating, see page* ***7-10****. This oil is more fluid at extremely cold temperatures.*

- Engine cooling system — Must have a minimum of **50%** Organic Acid Technology (OAT) coolant for system protection.
- Tires — If the tires contain liquid ballast they must be protected against temperatures below **0 °C** (**32 °F**). Consult your dealer.
- Condensation in the fuel tank — To prevent condensation forming in the fuel tank and water entering the fuel system, fill the fuel tank at the end of each day.
- Water in the fuel system — Drain the pre-filter and water separator on a regular basis to prevent build up of water in the system.
- Transmission oil heater — Use a transmission oil heater to maintain oil temperature when the tractor is not being used.

Maintaining operating temperatures

During cold ambient temperatures, the engine may not reach or maintain the correct operating temperature. Slow engine speeds in cold temperatures can cause damage to the engine. Use the following procedure to warm the engine and transmission oils and to maintain the correct operating temperatures.

Warming the engine

Start the engine using the procedure shown in the 'Starting the Engine' section of this manual.

NOTE: *During engine warm up, an electronically controlled engine may not run smoothly until the temperature increases.*

NOTE: *At low temperatures, the tractor must be run until it warms up. Transmission response may be compromised and heavy steering may occur until the oil is warm. Always use a transmission oil heater and engine coolant heater to reduce warm up time.*

Maintaining engine temperature

When the engine is operating in cold ambient temperatures without load, maintain correct operating temperature as described below.

- Run the engine at approximately **1500 RPM**.
- Cover the front grille of the tractor to control the amount of air passing through the engine radiator.

NOTICE: *During cold ambient temperatures, never run the engine at low idle speed for long periods of time or when the coolant temperature is below normal.*

Stopping the engine when hot

- Run the engine at a slow speed for a short period of time. This will permit the engine temperature to decrease gradually before stopping the engine.

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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.*

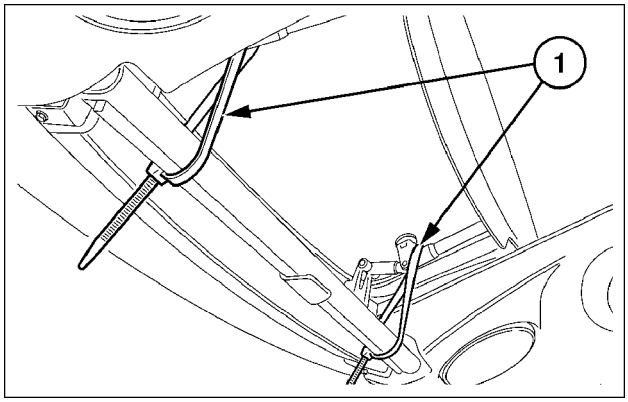
Use the drawbar or drawbar hanger for a rear tie down point.

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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MAINTENANCE CHART

Maintenance chart

Maintenance action	Replace	Drain fluid	Check	Cleaning	Grease	Charging	Bleed	Change fluid	Adjust	Page no.
WHEN THE WARNING LAMP LIGHTS										
Change the engine air cleaner outer element	x									7-15
Drain the fuel system water separator		x								7-16
Check the brake fluid level			x							7-17
EVERY 10 HOURS OR EACH DAY										
Check the engine coolant level			x							7-18
Checking the engine oil level			x							7-19
Check the remote control valve drain bottles			x							7-20
Check windscreen washer reservoir			x							7-21
Drain air reservoir on air operated trailer brake		x								7-22
FIRST 50 HOURS										
Service operations			x							7-23
EVERY 50 HOURS										
Clean the cab air filter				x						7-24
Clean the SCR cover air ducts				x						7-25
Clean the cooler section				x						7-26
Grease all fittings					x					7-27
Check the front and the rear wheel nuts			x							7-34
Check the tire pressures and the tire condition			x							7-34
EVERY 100 HOURS										
Inspect the poly V-belt			x							7-35
Inspect the compressor drive belt			x							7-35
EVERY 300 HOURS										
Check the battery fluid level			x							7-37
Adjust the hand brake					x					7-39
Check the transmission oil level, the rear axle oil level and the hydraulic oil level			x							7-40
Check the 4WD front axle differential oil level and the hubs oil level			x							7-41
Check the front PTO gearbox oil level			x							7-42
EVERY 600 HOURS										
Change engine oil and filter	x									7-43
Change the first stage fuel filter and the fuel filter element	x									7-45
Change the engine air cleaner outer element	x									7-47
Change the hydraulic charge pump oil filter and the transmission oil filter	x									7-48
Check the engine air intake connections			x							7-49
Check the transmission oil cooler pipe couplings			x							7-50
Clean the DEF/AdBlue in-line filter				x						7-51
EVERY 1200 HOURS OR ANNUALLY										
Change the cab air filters	x									7-52
Change the hydraulic suction pump oil filter	x									7-53
Change the 4WD differential oil							x			7-54
Change the 4WD planetary hub oil							x			7-55
Change the front PTO gearbox oil							x			7-56
Grease the rear axle shaft bearing					x					7-57

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Capacities

	PUMA 150 CVX	PUMA 165 CVX	PUMA 175 CVX
Main fuel tank	**264.0 L** (**69.7 US gal**)		
Auxiliary fuel tank	**64.0 L** (**16.9 US gal**)		
DEF/ AdBlue® tank	**56.0 L** (**14.8 US gal**)		
Cooling system	**26 l** (**6.9 US gal**)		
Engine (including filter)	**15 l** (**3.96 US gal**)		
Transmission/rear axle/hydraulics	**65 l** (**17.2 US gal**)		**68 l** (**18.0 US gal**)
4WD front axle — differential	**9 l** (**2.38 US gal**)		
4WD front hubs (Class 3 axle — less brakes)	**1.25 l** (**0.33 US gal**)		
4WD front hubs (Class 3 axle — with brakes)	**3.0 l** (**0.79 US gal**)		
4WD front hubs (Class 3.5 axle — less brakes)	**3.6 l** (**0.95 US gal**)		
4WD front hubs (Class 3.5 axle — with brakes)	**4.0 l** (**1.06 US gal**)		
Front PTO	**0.5 l** (**0.13 US gal**)		

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ALARM(S)

Fault codes and symbols

DMD	Light	Fault code	Area of fault	Action
	-	1---	Electronic hitch control	The system fault symbols relate to an operational fault in one or more of the tractors main components, either electrical, mechanical or hydraulic. The appearance of a fault symbol may be accompanied by a four digit fault code. Consult your authorized dealer.
	-	2---	Transmission	
	-	3---	Engine	
	-	4---	Rear electronic remote control valves	
	-	45--	Front electronic remote control valves	
	-	5---	Rear PTO system	
	-	6---	Front wheel drive	
	-	7---	Rear differential lock	
	-	8---	Front PTO system	
	-	9---	Front three-point hitch	
	-	10--	Suspended front axle	
	-	12--	Electronic Park Lock	
	-	125--	Braking System	
	-	126--	ABS System	
	-	128--	Intelligent Trailer Brake Valve	
	-	13--	Universal Control Module (UCM)	

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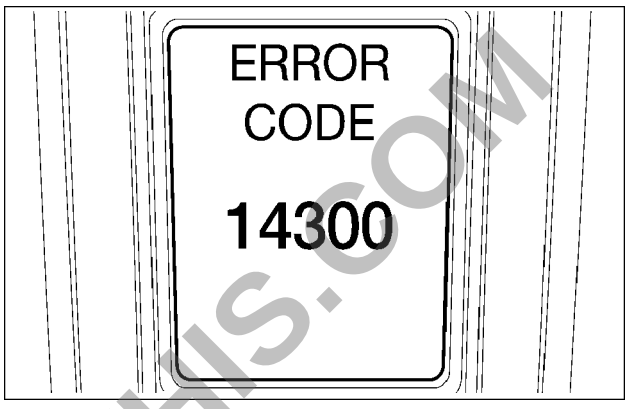
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8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Introduction

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



BRK5782D 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.

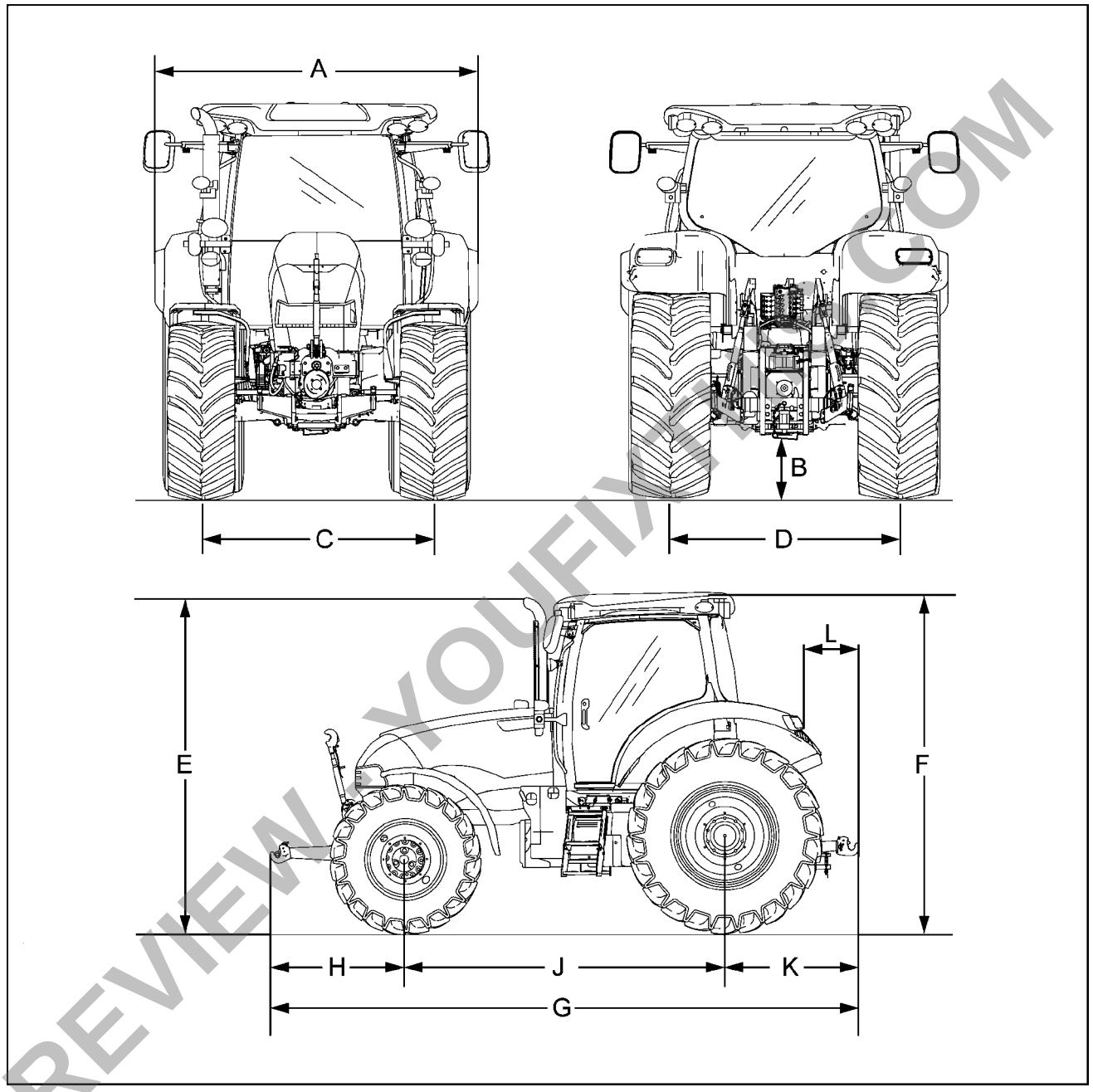
If a fault code will be displayed in the instrument panel and you are unable to rectify the fault yourself, contact your authorized dealer and report the fault code displayed.

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9 - SPECIFICATIONS

General dimensions



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NOTE: *The following dimensions are based on standard tractors fitted with tire size as shown. Allowance must be made for tires of larger or smaller dimensions:*

		4WD (standard and suspension axles)
The following dimensions are based on tractors with tire sizes:	Front	540/ 65R28
	Rear	650/ 65R38
A. Width across rear fenders		
Narrow fenders		**2164 mm** (**85.2 in**)
Wide fenders		**2338 mm** (**92.0 in**)
Wide fenders extensions		**2470 mm** (**97.2 in**)

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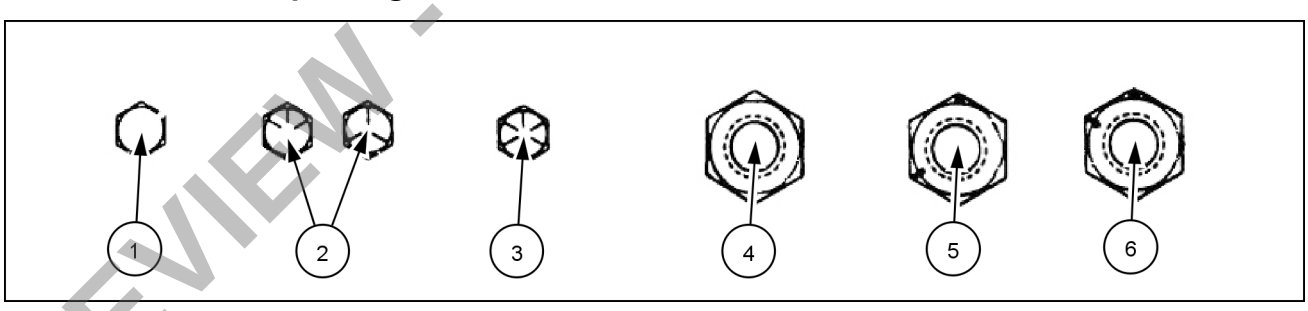
Minimum hardware tightening torques

INCH NON-FLANGED HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	**9.7 Nm (85.9 lb in)**	**13 Nm (115.1 lb in)**	**14 Nm (123.9 lb in)**	**18 Nm (159.3 lb in)**	**6.9 Nm (61.1 lb in)**	**9.8 Nm (86.7 lb in)**
5/16	**20 Nm (177.0 lb in)**	**26 Nm (230.1 lb in)**	**28 Nm (247.8 lb in)**	**37 Nm (327.5 lb in)**	**14 Nm (123.9 lb in)**	**20 Nm (177.0 lb in)**
3/8	**35 Nm (26 lb ft)**	**46 Nm (34 lb ft)**	**50 Nm (37 lb ft)**	**65 Nm (48 lb ft)**	**26 Nm (19 lb ft)**	**35 Nm (26 lb ft)**
7/16	**57 Nm (42 lb ft)**	**73 Nm (54 lb ft)**	**80 Nm (59 lb ft)**	**104 Nm (77 lb ft)**	**41 Nm (30 lb ft)**	**57 Nm (42 lb ft)**
1/2	**87 Nm (64 lb ft)**	**113 Nm (83 lb ft)**	**123 Nm (91 lb ft)**	**159 Nm (117 lb ft)**	**61 Nm (45 lb ft)**	**88 Nm (65 lb ft)**
9/16	**125 Nm (92 lb ft)**	**163 Nm (120 lb ft)**	**176 Nm (130 lb ft)**	**229 Nm (169 lb ft)**	**88 Nm (65 lb ft)**	**125 Nm (92 lb ft)**
5/8	**174 Nm (128 lb ft)**	**224 Nm (165 lb ft)**	**244 Nm (180 lb ft)**	**316 Nm (233 lb ft)**	**122 Nm (90 lb ft)**	**172 Nm (127 lb ft)**
3/4	**306 Nm (226 lb ft)**	**397 Nm (293 lb ft)**	**432 Nm (319 lb ft)**	**560 Nm (413 lb ft)**	**217 Nm (160 lb ft)**	**305 Nm (225 lb ft)**
7/8	**495 Nm (365 lb ft)**	**641 Nm (473 lb ft)**	**698 Nm (515 lb ft)**	**904 Nm (667 lb ft)**	**350 Nm (258 lb ft)**	**494 Nm (364 lb ft)**
1	**742 Nm (547 lb ft)**	**960 Nm (708 lb ft)**	**1048 Nm (773 lb ft)**	**1356 Nm (1000 lb ft)**	**523 Nm (386 lb ft)**	**739 Nm (545 lb ft)**

IDENTIFICATION

Inch Bolts and free-spinning nuts



20083682 1

Grade Marking Examples

SAE Grade Identification			
1	Grade 2 - No Marks	4	Grade 2 Nut - No Marks
2	Grade 5 - Three Marks	5	Grade 5 Nut - Marks **120°** Apart
3	Grade 8 - Five Marks	6	Grade 8 Nut - Marks **60°** Apart

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5 TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT
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Never weld on a wheel with a tire installed. Always remove the tire completely from the wheel prior to welding.

Always have a qualified tire technician service the tires and wheels. If a tire has lost all pressure, take the tire and wheel to a tire shop or your dealer for service. Explosive separation of the tire can cause serious injury.

DO NOT weld to a wheel or rim until the tire is completely removed. Inflated tires can generate a gas mixture with the air that can be ignited by high temperatures from welding procedures performed on the wheel or rim. Removing the air or loosening the tire on the rim (breaking the bead) will NOT eliminate the hazard. This condition can exist whether tires are inflated or deflated. The tire MUST be completely removed from the wheel or rim prior to welding the wheel or rim.

⚠ Driving on public roads and general transportation safety ⚠

Comply with local laws and regulations.

Use appropriate lighting to meet local regulations.

Make sure that the SMV emblem and Speed Identification Symbol (SIS) are visible.

Make sure that the brake pedal latch is engaged. You must lock brake pedals together for road travel.

Use safety chains for trailed equipment when safety chains are provided with machine or equipment.

Lift implements and attachments high enough above ground to prevent accidental contact with road.

When you transport equipment or a machine on a transport trailer, make sure that it is properly secured. Be sure the SMV and SIS on the equipment or machine are covered while being transported on a trailer.

Be aware of overhead structures or power lines and make sure that the machine and/or attachments can pass safely under.

Travel speed should be such that you maintain complete control and machine stability at all times.

Slow down and signal before turning.

Pull over to allow faster traffic to pass.

Follow correct towing procedure for equipment with or without brakes.

⚠ Fire and explosion prevention ⚠

Fuel or oil that is leaked or spilled on hot surfaces or electrical components can cause a fire.

Crop materials, trash, debris, bird nests, or flammable material can ignite on hot surfaces.

Always have a fire extinguisher on or near the machine.

Make sure that the fire extinguisher(s) is maintained and serviced according to the manufacturer's instructions.

At least once each day and at the end of the day, remove all trash and debris from the machine especially around hot components such as the engine, transmission, exhaust, battery, etc. More frequent cleaning of your machine may be necessary depending on the operating environment and conditions.

At least once each day, remove debris accumulation around moving components such as bearings, pulleys, belts, gears, cleaning fans, etc. More frequent cleaning of your machine may be necessary depending on the operating environment and conditions.

Inspect the electrical system for loose connections and frayed insulation. Repair or replace loose or damaged parts.

Do not store oily rags or other flammable material on the machine.

Do not weld or flame cut any items that contain flammable material. Clean items thoroughly with non-flammable solvents before welding or flame-cutting.

Do not expose the machine to flames, burning brush, or explosives.

Promptly investigate any unusual smells or odors that may occur during operation of the machine.

⚠ General battery safety ⚠

Always wear eye protection when you work with batteries.

Do not create sparks or have open flame near a battery.

Ventilate the area when you charge a battery or use a battery in an enclosed area.

Disconnect the negative (-) terminal first and reconnect the negative (-) terminal last.

When you weld on the machine, disconnect both terminals of the battery.

Do not weld, grind, or smoke near a battery.

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Seat belt

⚠ WARNING

Equipment failure could cause accident or injury!
Always fasten the seat belt securely before you operate the machine. Inspect seat belt parts for wear and damage. Replace any and all worn or damaged parts of the seat belt prior to operation.
Failure to comply could result in death or serious injury.

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⚠ WARNING

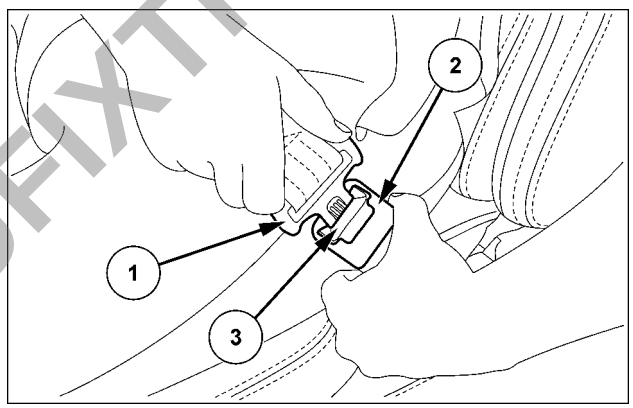
Roll-over hazard!
Securely fasten the seat belt. Your machine is equipped with a Roll-Over Protective Structure (ROPS) cab for your protection. The seat belt can help ensure your safety if it is properly used and maintained. Never wear a seat belt loosely or with slack in the belt system.
Failure to comply could result in death or serious injury.

W0376A

Before using the tractor, fasten the seat belt. At regular intervals, carefully inspect the seat belts to check that there are no worn parts and replace them when necessary.

Adjust the position of the seat. Pull the seat belt onto your body, into the lowest position possible over the abdomen. Push the metal eyelet of the insert **(1)** into the buckle **(2)** until you hear it click to indicate that it has coupled correctly.

To unfasten the seat belt, press the red button **(3)** in the middle of the buckle, then separate the buckle and the metal eyelet.



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7. Area Accumulator. The total area worked will be displayed in hectares or acres depending on the measurement unit selected.
   Area per Hour Forecaster. The area/hour symbol will display together with a forecast of the area that will be worked in one hour if the current rate of work is continued.

8. Electro-Hydraulic Remote valve settings. Depress to view remote valve functions.

9. Odometer. The odometer provides a visual record of the distance travelled in kilometers or miles depending on the measurement unit selected. Depress repeatedly to toggle between displays 1 and 2.

10. ATC settings. Depress to view Automatic Temperature Control (ATC) settings.

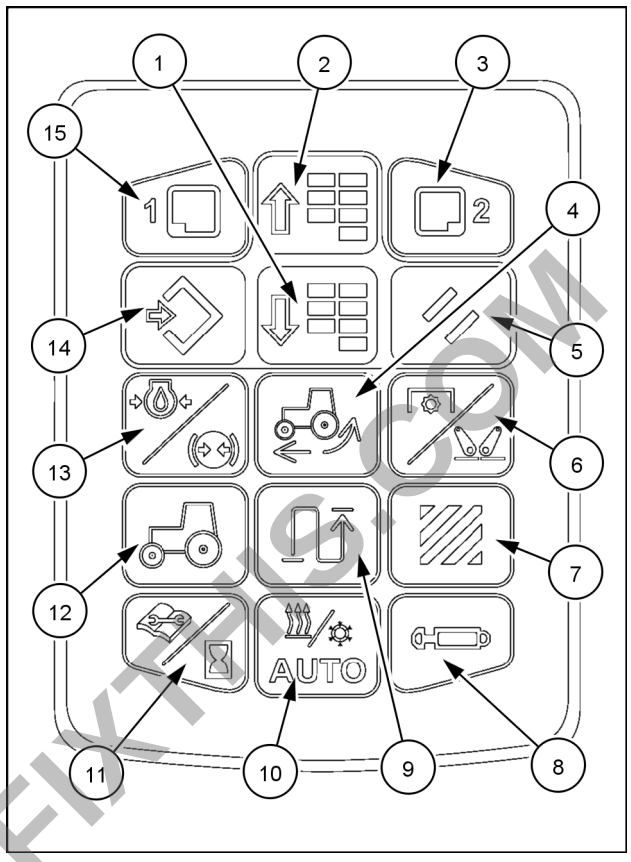
11. Combined function. Depress to enter diagnostic mode or to display engine hours.
    - Momentarily depress the switch to show the engine hours.
    - Depress the switch for **2 s** and the display shows cyclically all the snoozed fault codes and warnings.

12. Depress to view tractor performance display in the operating display.

13. Combined function, engine oil pressure and air brake pressure. Depress repeatedly to cycle through engine oil pressure and trailer air brake pressure readings.

14. Enter/exit key. Depress and hold for three seconds to enter setup mode. Momentary depress to exit setup mode and display operating screen.

15. Setup key 1. Used in conjunction with key 3.

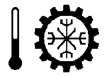


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Transmission

SYMBOL	Panel light	Warning light	Alarm	Cause	Action
	-	-	2 pulses/ sec	Transmission oil temperature too low.	Wait with tractor running tractor until oil temperature increases.
	-	-	2 pulses/ sec	Driving direction selected without depressing the clutch pedal, after leaving the drivers seat.	Cycle clutch pedal.
	-	-	2 pulses/ sec	Shuttle lever in drive.	Place shuttle lever in neutral.
 TRANSMIS OVER SPEED	-	 flashing **4 s**/ continuous	**3 s** pulsating	Transmission overspeed.	Reduce engine speed.
		 flashing	pulsating		
	-	 flashing	continuous **10 s**	Rear Power Take-Off (PTO) engaged, operator not present and PTO Intention switch not activated.	Activate the PTO Intention switch before leaving the tractor.
	-	 flashing	continuous **10 s**	Front Power Take-Off PTO engaged, operator not present and PTO Intention switch not activated.	Activate the PTO Intention switch before leaving the tractor.
 PTO TIMED OUT	-	 flashing **4 s**/ continuous	**3 s** pulsating	Incorrect use of PTO controls, timed out.	Do not engage PTO until DMD symbol clears.
 PTO ANTISTALL	-	 flashing **4 s**/ continuous	**3 s** pulsating	Engine speed too low to allow PTO engagement	Increase engine speed and reengage PTO drive.
 SLIP LIMIT WARNING	-	 flashing **4 s**/ continuous	**3 s** pulsating	Slip limit warning.	Reduce tractor or implement draft load.

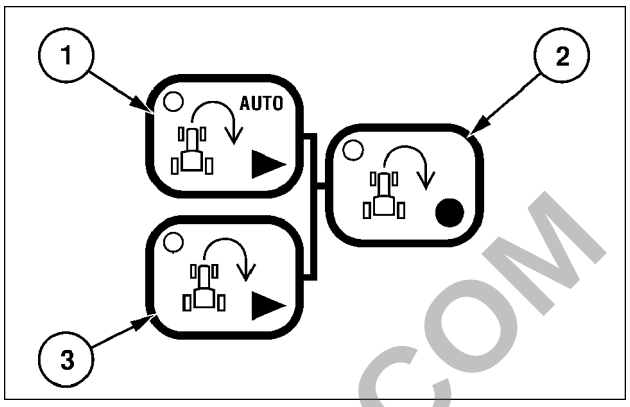
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Recording a sequence

To start recording a Headland Management sequence, depress and hold the record switch **(2)** for **1 s**, the light in the switch will start to flash. HMC is now activated but remains in standby mode.

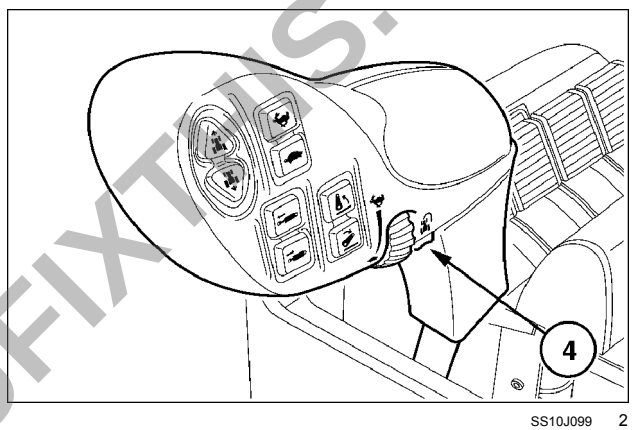
The HMC symbol will appear in the display accompanied by the recording symbol **(1)** figure which will start to flash.



BRK5667B 1

To start a recording, momentarily depress the step switch **(4)**, alternatively when the first vehicle function is operated, for example, a gear shift, this will also activate the recording sequence. The recording symbol and switch light will become steadily lit and a short beep will be heard, indicating HMC is now recording.

NOTE: *Only the operation of controls linked to the HMC system will be recorded. Controls not linked to HMC will be ignored.*



SS10J099 2

As each step is recorded, the corresponding function symbol will appear inversed (grey on black) in the display.

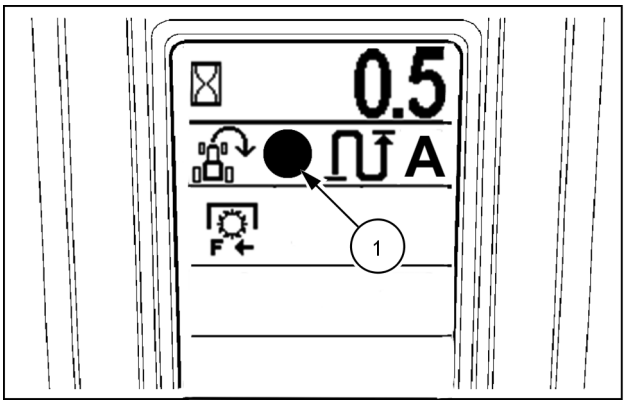
As each step is completed, the symbol will move down the display and the color will change to black on grey.

During a recording, pauses may be inserted into the programme by momentarily depressing the step switch **(4)**. HMC recording will pause at this point and a pause symbol will be inserted in the sequence. To notify the operator a pause has been included, the record icon flashes twice and a short beep will be heard. Depress the step switch again to resume recording.

After the first HMC sequence has been completed, a second sequence may now be recorded.

To save a sequence press the record switch **(2)**.

To start recording a second sequence, select the following sequence as previously described and repeat the procedure.



SVIL18TR03076AA 3

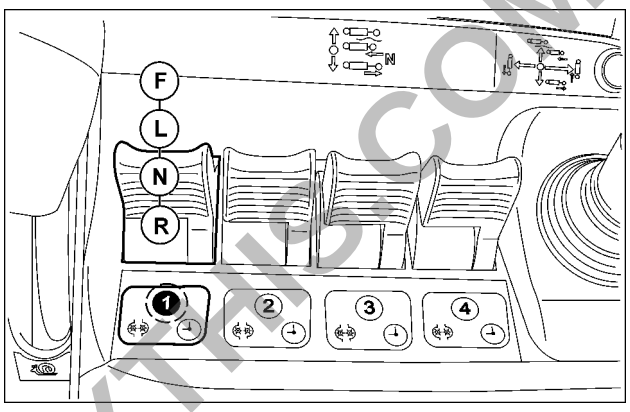
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NOTE: *If during a recording sequence, the engine is stopped (key- off) then all steps recorded up to that point will be saved.*

NOTICE: *At key- off (engine stop), any adjustments to electronically stored settings made during tractor operation are transferred from the operating memory to the main memory. To allow sufficient time for the data to transfer, pause for a minimum of* ***5 s*** *before turning the key on again.*

NOTICE: *When including EHR valve operation in an HMC sequence, it is important to allow sufficient time for the movement of the control lever to be recorded as it passes through Raise (R), Neutral (N), Lower (L) and Float (F) positions (or vice versa). Pausing the lever in each position for approximately* ***0.5 s*** *will provide sufficient time for the step to be recorded accurately. Moving the lever too quickly may confuse data transfer causing the implement to respond incorrectly on play- back.*

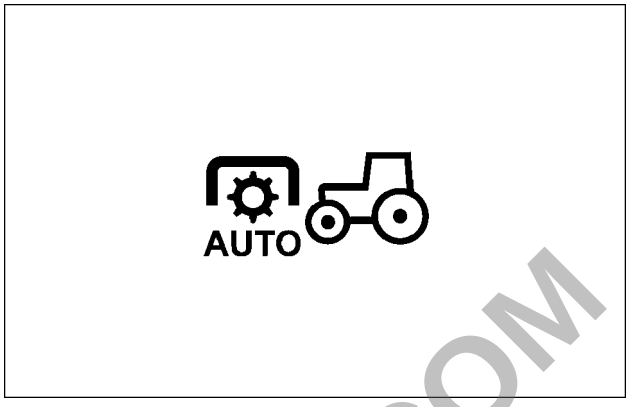


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To activate the front function, engage the PTO as previously described and then depress and hold the auto PTO switch for more than **1 s**. The front auto PTO light **(1)** on the instrument panel will illuminate to confirm activation.



SS10D197 2

With the front three-point hitch in the lowered position and the PTO engaged, the auto light will remain on. Raising the implement will disconnect PTO drive and cause the auto light to flash. Lowering the implement will reengage PTO drive, the auto light will cease to flash and will remain on.

Depressing the front auto PTO switch again will deactivate the function and the auto light will extinguish.

NOTE: *The auto PTO function will be deactivated every time the ignition key is switched off.*

Auto PTO will be deactivated should one or more of the following occur:

- The tractor moving with the three-point hitch in the raised position for more than **2 min**.
- The tractor is stationary for more than **10 s** with the front three-point hitch in the raised position.
- The PTO is switched off.
- The operator leaves the seat for more than **2 s** with auto PTO activated and the three-point hitch in the raised position.

To reactivate auto PTO, clear the error and reengage the function as previously described.

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Electronic joystick operation (where fitted)

NOTE: *The following descriptions of joystick operating procedures refer to tractors not equipped with a factory installed loader kit. For information on loader functions consult the loader Operator's Manual or see page* ***6-181****.*

The optional electronic joystick **(1)** can be used to operate either mid mounted or rear mounted EHRs . Where the joystick is being used to control the rear mounted valves, the operation of the mid mount valves will be transferred to EHR lever control.

With mid and rear mounted EHRs, the switch on the integrated control panel, permits joystick control of either mid mounted or rear mounted valves.

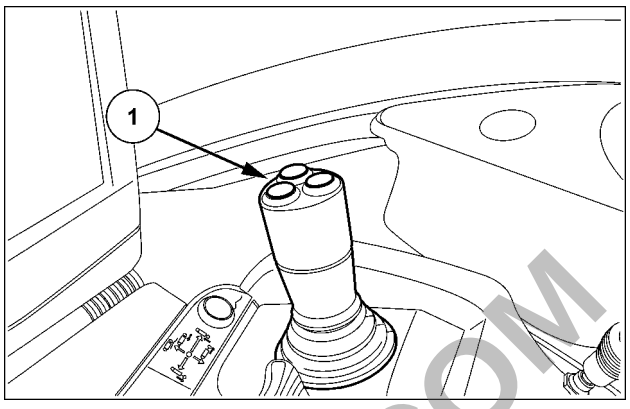
Indicator lights **(1)** and **(2)** confirm which valves are controlled by the joystick.

NOTE: *Where tractors are fitted with mid mount EHRs and mechanical rear remote vales, depressing the switch* ***(1)*** *will have no effect and the light* ***(2)*** *will remain illuminated.*

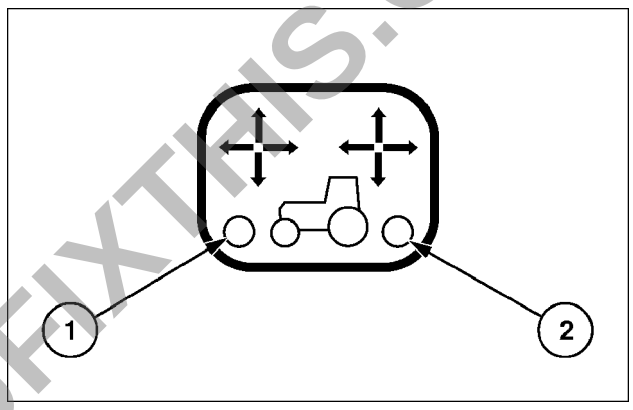
At key ON, assuming the joystick set to operate the mid mount valves, the indicator light **(1)** will be on. To switch joystick control from mid mount to rear mount valves, depress and hold the switch for **2 s** until light **(1)** is extinguished and light **(2)** starts to flash.

Release the switch and light **(2)** will stop flashing and will remain illuminated. Control is now transferred to the rear mounted valves.

Before transferring joystick control between EHRs, it is important that all remote valves are in neutral. Any valves not in neutral will be disabled and the EHR display will identify the number and 'R' (rear) or 'FR' (front). If a joystick transfer is attempted and one of the target valves is not in neutral the indicator light will flash until the disabled EHR has been reactivated.



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SS10J123 7

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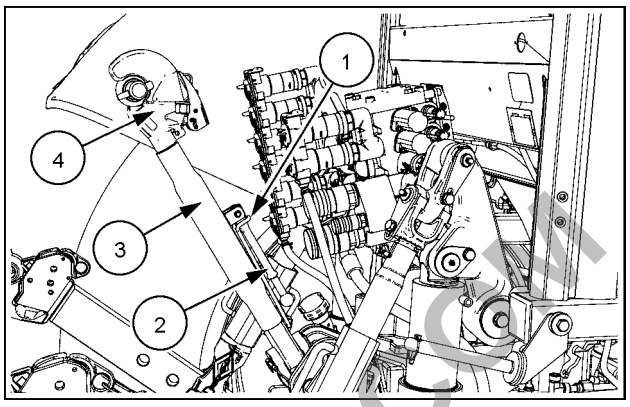
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Top link adjustment

Mechanical top link adjustment

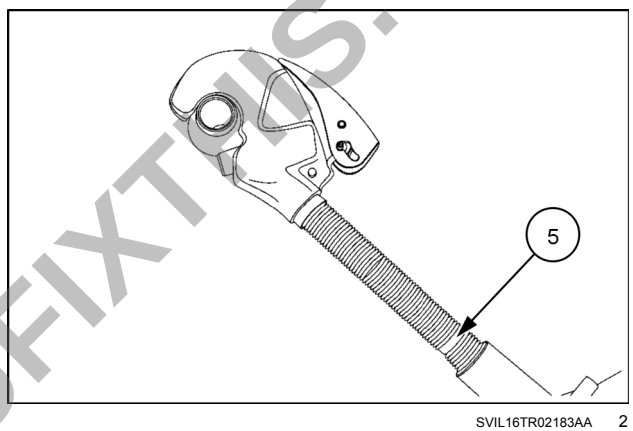
The top link has a threaded centre section **(3)** which, when rotated, will shorten or lengthen the top link, as required. Lift up the spring retainer **(1)** to allow the centre section **(3)** to rotate. To ease adjustment, lift the handle **(2)** and use it as a lever. Alternatively, rotating the link end **(4)** will permit limited adjustment of top link length.

To lock the sleeve after adjustment, push the spring retainer down so that it holds the handle flush against the sleeve.



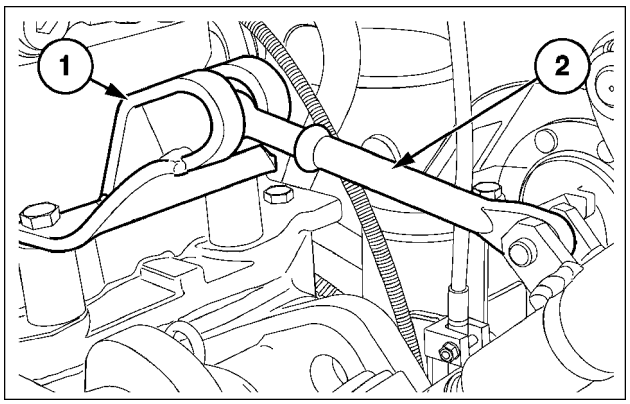
SVIL16TR01754AA 1

NOTICE: *Extend the top link only until the notch **(5)** in the thread is visible to avoid damage of the thread.*



SVIL16TR02183AA 2

When not in use, the top link can be removed and stored or left in an upright position. Hook the ball end of the handle **(2)** into the bracket **(1)** on the rear axle housing, as shown.

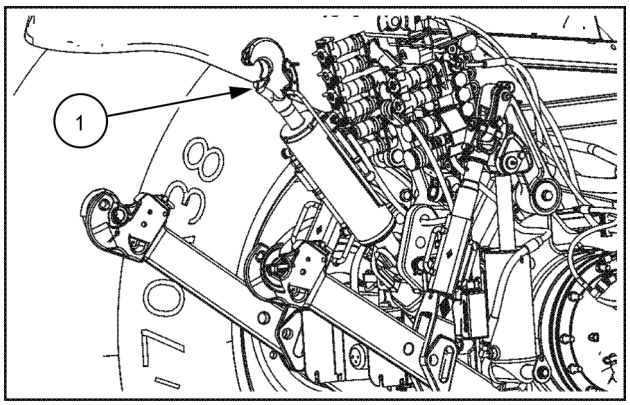


BRE1720B 3

Hydraulic top link adjustment

The hydraulic adjustable top link **(1)** incorporate a double-acting ram cylinder connected into a remote control valve.

To lengthen the top link pull the lever back from the neutral position, push forward from the neutral position to retract the cylinder.



SVIL17TR01346AA 4

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The sectioned drawings shown, illustrate the wheel rim and disc positions relative to the hub at various track settings.

When refitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor for 1 hour and again after 50 hours operation.

Rear disc to hub nuts (8x M18)	**341 Nm** (**252 lb ft**)
Rear disc to rim nuts M16 nuts	**250 Nm** (**184 lb ft**)

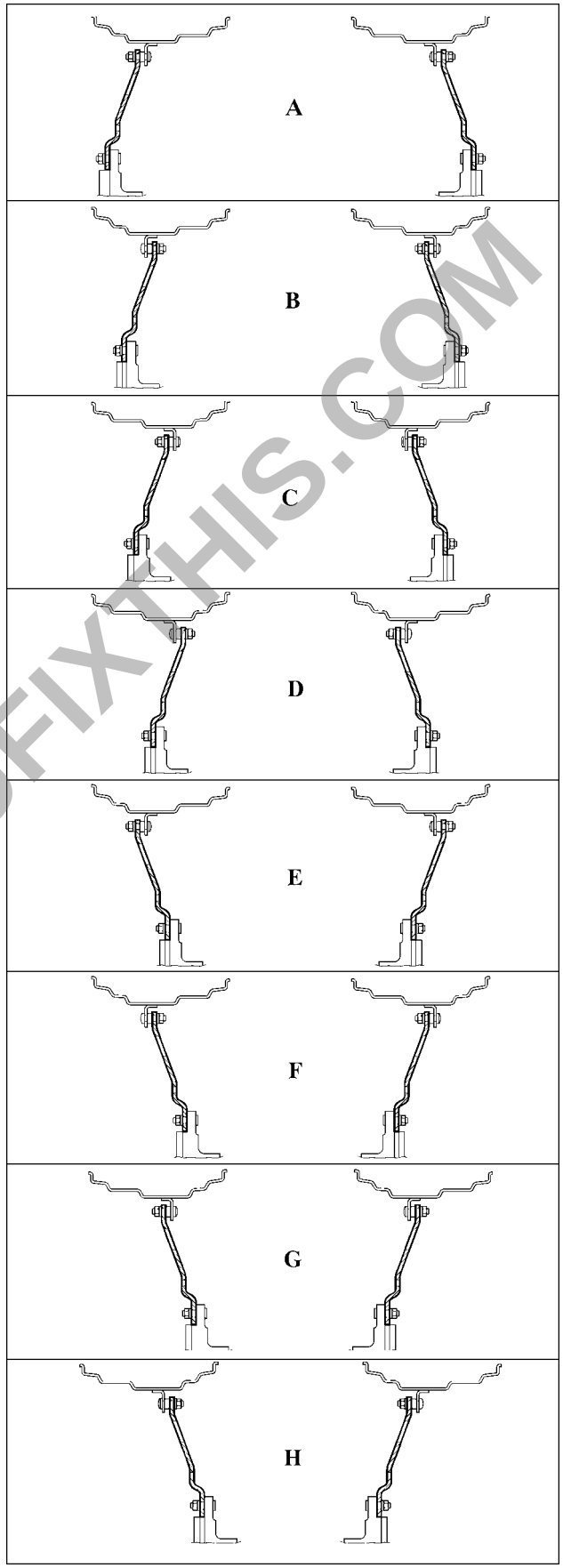
Track Settings - Adjustable Rim (Types 1)

Track setting	Disc types 1
A	**1530 mm** (**60.2 in**)
B	**1630 mm** (**64.2 in**)
C	**1734 mm** (**68.3 in**)
D	**1834 mm** (**72.2 in**)
E	**1930 mm** (**76.0 in**)
F	**2030 mm** (**79.9 in**)
G	**2134 mm** (**84.0 in**)
H	**2234 mm** (**88.0 in**)

NOTE: *The track widths are nominal and may vary from that shown dependent on wheel and tire size.*

NOTE: *With the larger tire sizes, the narrower track settings may not be attainable due to minimal clearance between tyres and fenders or equipment. The dimensions shown in the chart are nominal and should be used as a guide only. Track settings may vary dependent upon wheel type and tire size.*

NOTE: 50.0 km/h *(**31.1 mph**) vehicles with 380/90R46 tires are not permitted at narrowest **(A)** or widest **(H)** track setting.*



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Protective devices

⚠ WARNING

Moving parts!
Install all covers, panels, and guards after servicing or cleaning the machine. Never operate the machine with covers, panels, or guards removed.
Failure to comply could result in death or serious injury.

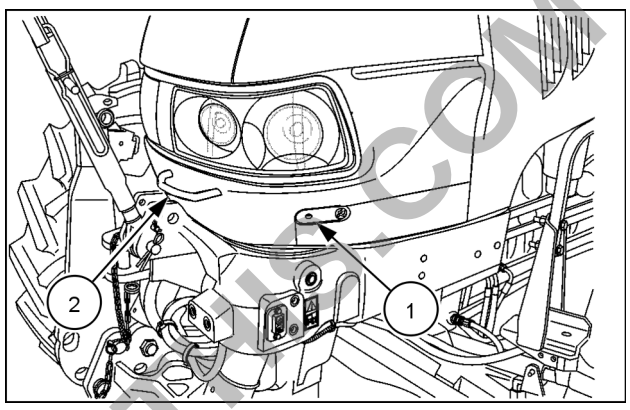
W0135A

Engine hood

For safety the hood must be closed and correctly latched before operating the tractor.

The hood is hinged at the rear to provide easy access to the engine area for routine maintenance. Two gas struts (located under the hood) assist in raising the hood to either of two positions. A safety stay holds the hood in the selected position.

To open the hood, push with a screwdriver or similar tool into the hole **(1)** on the left-hand side of the air intake. Slightly raise the hood with the handle **(2)**. The gas struts will take over and raise the hood to the first position secured by the nylon retaining strap located at the front of the hood. All routine maintenance operations may be performed with the hood raised to this position.



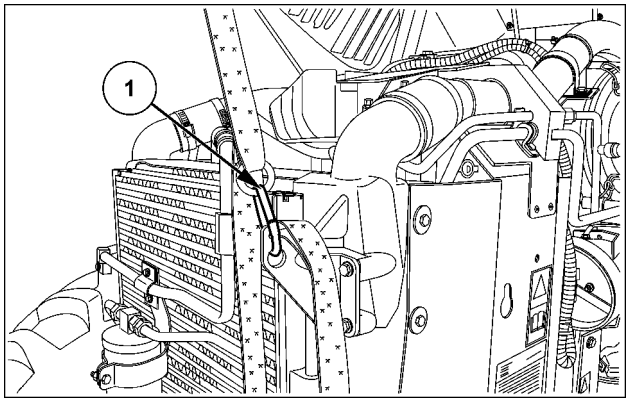
SVIL17TR01329AA 1

Additional guards are provided to prevent the fingers being trapped by the fan/air conditioner drive belt when the hood is closed.

Should it become necessary to raise the hood to its full extent, unclip the retaining strap **(1)** from its anchor bracket and, holding firmly onto the strap, allow the hood to raise fully on the gas struts.

NOTE: *Raising the hood to full height is only necessary for service requirements that are best left to your dealer.*

To close the hood, pull it fully down ensuring the retaining strap has been refitted to the anchor bracket. An audible click will signal engagement of the locking catch. Check that the hood is properly closed.



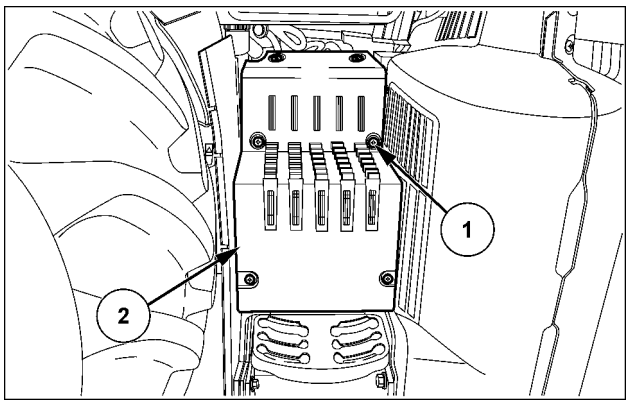
SS11H248 2

Right-hand steps/battery cover

The right-hand footsteps on your tractor are secured by six screws and cover the battery.

To gain access to the battery and power fuses (ISO bus), remove the screws **(1)** and the steps/battery cover **(2)**.

When replacing the steps, ensure the six screws **(1)** are tightened securely.



SS11A005 3

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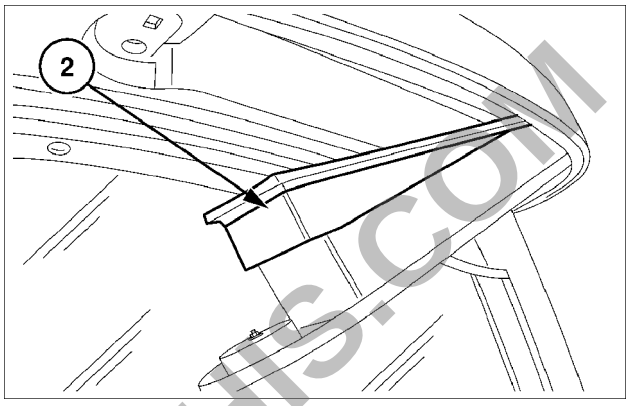
EVERY 1200 HOURS OR ANNUALLY

Change the cab air filters

External Filters

To remove the external filter, loosen the thumbscrew at the front end of the filter housing. Allow the housing to drop downwards and lift out the filter element **(2)**. Dispose of the filter elements properly.
The filter consists of two elements, a foam pre-filter and electrostatic main element that traps fine dust particles. Clean both filter chambers with a damp, lint-free cloth.
Install new filter elements. A flow direction arrow is moulded into the side of the filter. Install the filters with the arrow pointing upwards. Install the covers.

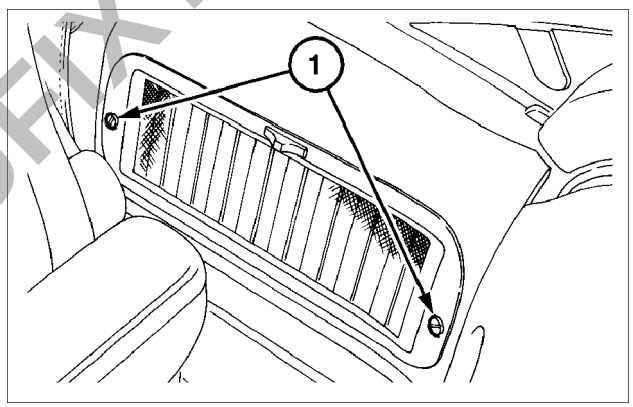
NOTE: *Take care not to damage the element during installation.*



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Internal Filter

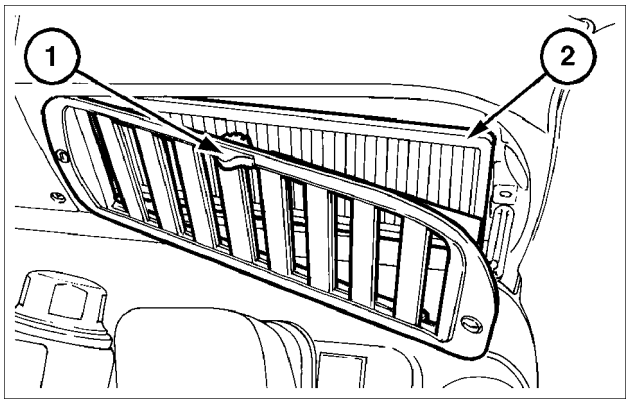
The internal filter is located in the panel behind the operators seat. To remove the internal filter turn captive screws **(1)** until the cover is loose.
Remove the filter cover **(1)** and the filter element **(2)** Figure **3**. Dispose of the filter element properly.
Clean the filter chamber with a damp lint-free cloth.



BSE2765A 2

Install the new filter element making sure that the arrow on the filter points to the rear of the tractor.
Install the filter cover.

NOTE: *Take care not to damage the filter element during installation.*



BSE2866A 3

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Preparation for use after storage

⚠ WARNING

Avoid injury!
Carefully read and observe all the precautionary advice contained in this manual.
Failure to comply could result in death or serious injury.

W0044A

After extended storage, prepare the tractor for further use, as follows:

- Inflate the tyres to the correct pressure and lower the tractor to the ground.
- Refill the fuel tank(s).
- Check the radiator coolant level.
- Check all oil levels.
- Install fully charged batteries.
- Remove the exhaust pipe covering.
- Start the engine and check that all instruments and controls are functioning correctly. Using the tractor hydraulic system in Position Control, fully raise the 3- point hitch and remove the supports.
- Check operation of heating and air conditioning systems (where fitted).
- Drive the tractor without a load to ensure that it is operating satisfactorily.

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