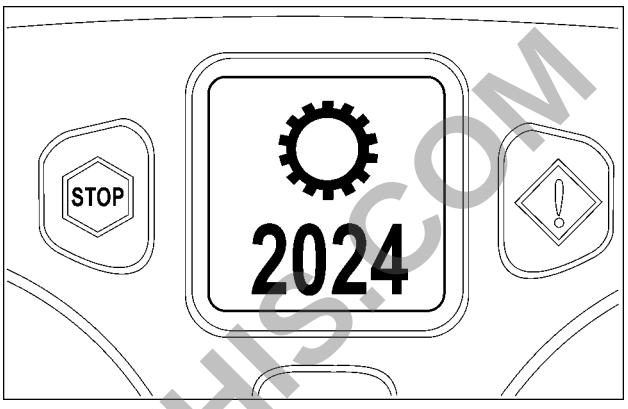
8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Introduction

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



SS11K038 1

ERROR CODES

Your tractor makes extensive use of electronics to control and monitor major components within the driveline, 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 error 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 error code will be supported by the relevant symbol displayed above the number.

Should a fault occur causing the tractor to become disabled, an error code will be displayed in the instrument panel. If this should happen and you are unable to rectify the fault yourself, contact your authorised dealer and report the error code displayed.

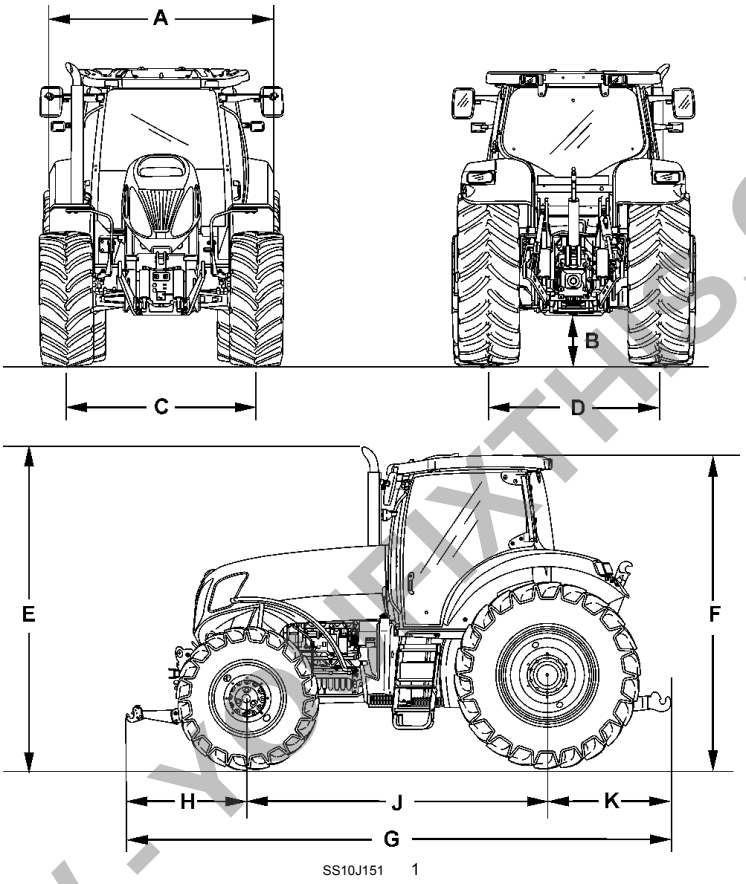
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9 - SPECIFICATIONS

General dimensions

Frame - General specification



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		T7.220	T7.235	T7.250	T7.260	T7.270
Axles		Standard, Suspension, 4WD axles. SuperSteer				
The following dimensions are based on tractors with tyre sizes shown	Front	480/70R30				
	Rear	580/70R42				
Width of Vehicle						
A. Width across Narrow standard fender		**2158 mm** (**85.0 in**)				
A. Width across Wide fenders		**2334 mm** (**91.9 in**)				
A. Width across Wide fenders plus extensions **75 mm** (**3.0 in**)		**2484 mm** (**97.8 in**)				
A. Width across Wide fenders plus extensions **174 mm** (**6.9 in**)		**2682 mm** (**105.6 in**)				
General Dimensions						
B. Maximum ground clearance below front axle		**613 mm** (**24 in**)				
C. Front track setting	Adjustable rims	**1560 - 2258 mm** (**61.4 - 88.9 in**)				
NOTE: The fitting of dual wheels to the front axle is not recommended	Fixed rim	**1840 - 1980 mm** (**72.4 - 78.0 in**)				

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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									7-17
Drain the fuel system water separator		x								7-18
Check the brake fluid level			x							7-19
EVERY 10 HOURS OR EACH DAY										
Check the engine coolant level			x							7-20
Check the engine oil level			x							7-21
Check the remote control valve drain bottles			x							7-21
Check windscreen washer reservoir			x							7-22
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						7-26
Clean the cooler section				x						7-27
All grease fittings					x					7-28
Front wheels - Check			x							7-35
Check the tire pressures and the tire condition			x							7-35
EVERY 100 HOURS										
Inspect the poly V-belt			x							7-36
Inspect the compressor drive belt			x							7-36
EVERY 300 HOURS										
Check the battery fluid level			x							7-37
Adjust the hand brake					x					7-38
Check the transmission oil level, the rear axle oil level and the hydraulic oil level			x							7-39
Check the 4WD front axle differential oil level and the hubs oil level			x							7-40
Check the front PTO gearbox oil level			x							7-41
EVERY 600 HOURS										
Change engine oil and filter	x									7-42
Change the first stage fuel filter and the fuel filter element	x									7-44
Change the engine air cleaner outer element	x									7-45
Change the charge pump oil filter and the gear pump oil filter	x									7-46
Check the engine air intake connections			x							7-47
Check the transmission oil cooler pipe couplings			x							7-48
Clean the DEF/AdBlue in-line filter				x						7-48
EVERY 1200 HOURS OR ANNUALLY										
Change the cab air filters	x									7-49
Change the main oil filter cartridge	x									7-50
Change the 4WD differential oil							x			7-51
Change the 4WD planetary hub oil							x			7-52
Change the front PTO gearbox oil							x			7-52
Grease the rear axle shaft bearing					x					7-53

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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.

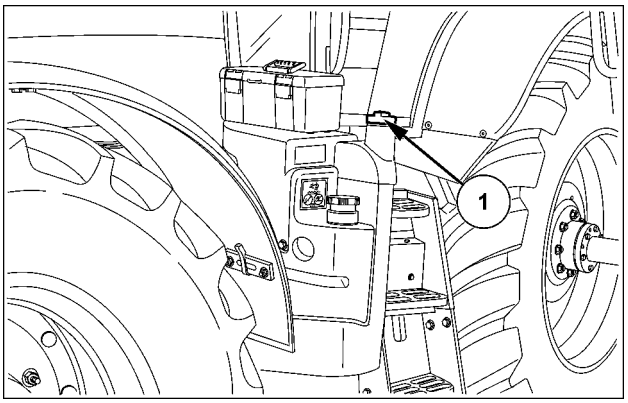
NOTE: *See your NEW HOLLAND dealer for replacement components and cleaning agents.*

See pages **7-12** and **7-13** for lubrication oil quality, maximum lubrication oil consumption ratings, and page **7-2** for fuel requirements. Your SCR system is compatible with up to **20 %** bio- diesel fuel.

with 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

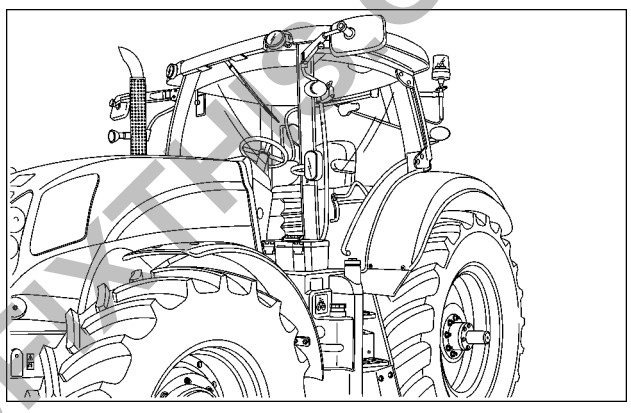
⚠ WARNING

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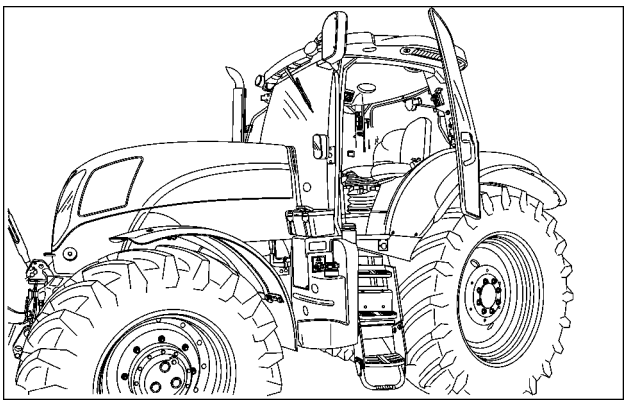
The cab features include a fresh air heater/ defroster with recirculation, air conditioning, sun visor, tinted glass, interior light, auxiliary power socket, storage facilities, interior/ exterior rear view mirrors and a choice of comfortable seats.

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.



SS10J006 2

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EVERY 600 HOURS

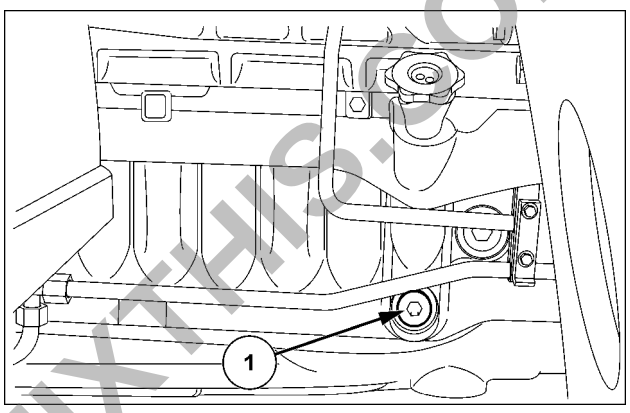
Change engine oil and filter

⚠ WARNING

Burn hazard!
Be very careful to avoid contact with hot fluids. If fluid is extremely hot, allow it to cool to a moderately warm temperature before proceeding.
Failure to comply could result in death or serious injury.

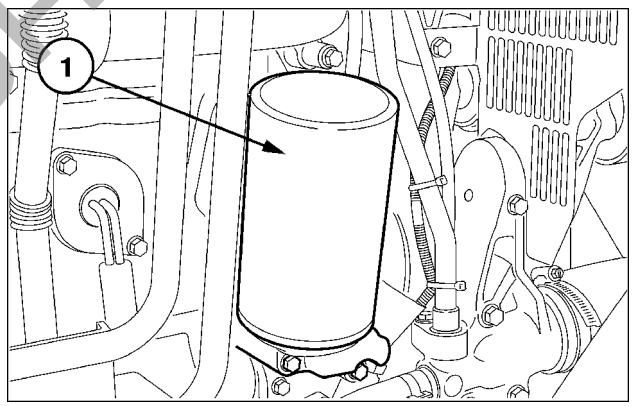
W0362A

1. Warm the engine to operating temperature. Stop the engine, remove the engine oil drain plugs **(1)** which are located at the rear of the sump on either side of the engine. Catch the oil in a suitable container and dispose properly.
2. Replace the seal of the drain plugs and refit the plug after the oil has drained.



SS11F059 1

3. Clean the oil filter area. Unscrew the oil filter **(1)** and discard. Catch any residual oil and dispose of properly.
4. Clean the new filter mounting surface.
5. Apply a thin coat of oil on the new filter sealing ring and install the filter. Turn until the sealing ring contacts the mounting surface, then tighten an additional ¾ to 1 full turn. Do not overtighten.



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ALARM(S)

Fault codes and symbols

DMD	LAMP	FAULT CODE	AREA of FAULT	ACTION
	-	1---	Electronical 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 authorised dealer.
	-	2---	Transmission	
	-	3---	Engine	
	-	4---	Rear electronic remote valves	
 F	-	45--	Front electronic remote valves	
	-	5---	Rear P.T.O. system	
	-	6---	Front wheel drive	
	-	7---	Rear differential lock	
	-	8---	Front P.T.O. system	
	-	9---	Front 3- point hitch	
	-	10--	Front suspension	
	-	12--	Electronic park lock	
	-	125--	Anti-Lock Braking System	
	-	13--	Universal Control Module (UCM)	
	-	15--	Turn Assist system	
	-	16--	Cab auto temperature control	
	-	18--	Armrest controller	

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Maintenance action	Grease	Cleaning	Check	Drain fluid	Replace	Adjust	Change fluid	Bleed	Charging		Page no.
EVERY 1200 HOURS OR EVERY 2 YEARS											
Change the DEF/AdBlue in-line filter	x										**7-54**
Change the engine air cleaner inner element	x										**7-55**
Check the valve tappet clearance			x								**7-56**
Change the air brake drier reservoir	x										**7-57**
Change the poly V-belts	x										**7-58**
Change the transmission oil, the rear axle oil and the hydraulic oil						x					**7-59**
EVERY 1800 HOURS OR EVERY 2 YEARS											
Change the engine breather filter	x										**7-60**
EVERY 3600 HOURS OR EVERY 2 YEARS											
Change the DEF/AdBlue main filter	x										**7-61**
EVERY 3600 HOURS OR EVERY 4 YEARS											
Change the engine coolant fluid - OAT type coolant						x					**7-62**
EVERY 36 MONTHS											
Check the air-conditioning system	x										**7-66**
GENERAL MAINTENANCE											
Cleaning the tractor			x								**7-67**
Check first stage fuel filter and water trap			x								**7-69**
Bleeding the fuel system							x				**7-69**
Hydraulic system hoses			x								**7-70**
Check the brake pedal latching/unlatching						x					**7-70**
Adjust the cab suspension (where fitted)						x					**7-71**
Adjust the automatic pickup hitch						x					**7-72**
Adjust the automatic pickup hitch						x					**7-73**
Headlight and work light adjustment						x					**7-74**
Bulb replacement	x										**7-75**
Fuses and relays	x										**7-79**
Protecting the electronic and electrical systems during battery charging or welding								x			**7-84**
Battery removal and installation	x										**7-85**

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STARTING THE UNIT

Starting the engine

⚠ WARNING

Hazard to bystanders!
Make sure the area surrounding the machine is clear of all persons before starting the engine.
Failure to comply could result in death or serious injury.

W0090A

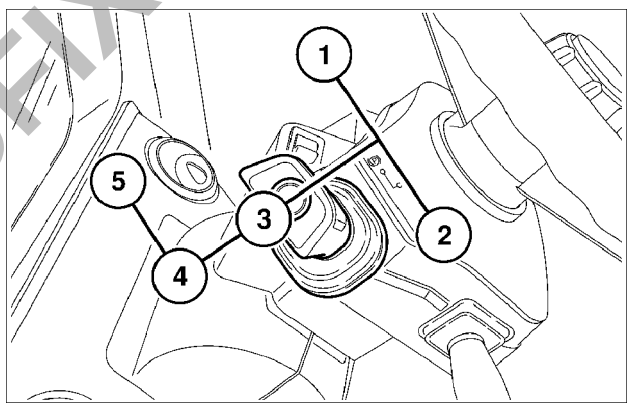
Before starting the engine, always carry out the following procedure:

- Sit in the driver's seat.
- Ensure the parking brake is firmly applied.
- Ensure the Travel lever is in the idle position.
- Ensure the shuttle lever is in the downward **(4)** or park position **(5)**.

NOTE: *When starting the tractor it is important not to depress or operate controls other than the key start switch or clutch pedal.*

- Ensure that the PTO knob is in the 'off' position.
- Place all remote control valve levers in neutral.
- Depress and hold the clutch pedal.

NOTICE: *The high operating speed of the turbo- charger makes it essential that adequate lubrication is assured when the engine is started. Therefore, idle the engine at **1000 RPM** for approximately one minute before driving the tractor.*

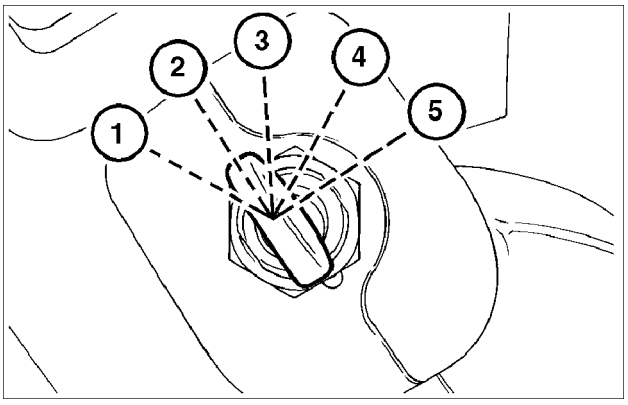


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Starting in cold weather (with a cold engine)

- Open the hand throttle halfway and turn the key- start switch clockwise to position **(4)**. An indicator light **(1)** Figure **3**, on the instrument panel will illuminate for **10 - 15 s** to show the grid heater has been activated.
- When the light extinguishes, turn the key fully clockwise to position **(5)**. Crank the engine until it starts but do not operate the starting motor for more than **60 s**.

NOTE: *If cranking is not carried out within **30 s** of the light extinguishing, turn the key- start to the 'off' position, pause and re- start the sequence.*



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Cab - Localization overview

Cab Layout with Sidewinder

NOTE: *Depending on model and options fitted, the view shown here may vary compared to your tractor.*

Item	Description	Functions
1	Door release catches	Left door access, Right hand door escape
2	Monitor display screen	Displays - Operator, transmission, and, vehicle information
3	Multi function handle	Fast steer, Remote cylinders, Hitch raise lower, Forward / reverse, Headland turn, Cruise control, Speed range
4	Joy stick, Hitch operation	Control of front hitch, or mid mount valves or front loader (where fitted)
5	Hitch control	3 point hitch height and drop speed control
6	Integrated control panel,	Joystick selector, Reversible engine fan, Engine speed, HTS selection, Rear 3 point hitch, Rear Auto PTO, Wheel slip manage, Rear axle differential lock, 4WD engagement, Front axle lock, Front 3 point hitch.
7	Front PTO, Rear PTOl	PTO engagement and engine speed control
8	Switch panel	Used when new additional equipment is fitted to the tractor
9	Electrical plugs	7 Pin DIN/ISO connector (where fitted), 3 pin implement socket and 12 volt output 10 ampere.
10	Diagnostic plug	For EST diagnostic data input
11	C Pillar right hand	Switches for EHC/EHR transport lock, Heated screens, Steering, Heated mirrors Battery isolator and optional monitor mounting
12	12 volt pins	Attachment for equipment requiring 12 volts
13	Hitch control external	For raise and lowering of the hitch from outside of the cab
14	PTO Electric	Rear PTO speed control
15	PTO Electric	Rear PTO brake engagement
16	APUH Lever	Release lever for the external Auto pick up hitch
17	Electronic draft control EDC (under arm rest pad)	Adjusts speed of raise and drop on Front and rear 3 point hitch, draft setting and wheel slip
18	Hitch operation with Electronic rear remotes	Raise / lower and float control of the remote valves
19	Hand throttle	Set engine speed
20	Hand brake lever	Engages rear axle brakes
21	Hitch control external	For raise and lowering of the hitch from outside of the cab
22	Electrical sockets	12 volt outputs cigar lighter, single pole socket and Mobile phone bracket
23	In cab storage	Storage box (where fitted) or shelf
24	Seat	Additional seat for passengers
25	Seat	With (EPB) Manual release lever (left hand side)
26	Transmission clutch	Clutch inching pedal for controlled engagement of transmission
27	Exhaust brake pedal	Exhaust brake (where fitted) aids stopping of tractor additonal to the brakes
28	Left / Right indicator	Turn indicator stalk, with follow home lights
29	Shuttle lever With (EPB)	Shuttle forward / reverse and Electronic park brake
30	Steering wheel	With column mounted adjustment lever, Key start, and Hazard warning light
31	Front ICP	Analogue and digital instrument cluster, with indicator and warning lights. Keypad enhanced
32	Fast steer	Where fitted allows rapid steering movements
33	Windshield wiper stalk	Controls wiper and washer functions
34	Foot brake pedals	Applies vehicle wheel brakes
35	Drive foot pedal	Engine speed control

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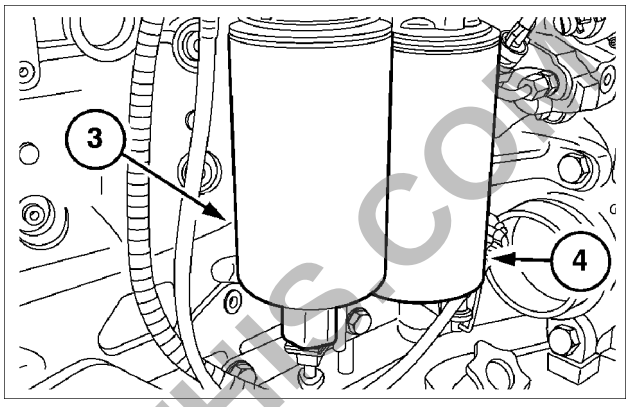
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Change the first stage fuel filter and the fuel filter element

FUEL PRE- FILTER

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

The primary **(3)** and secondary **(4)** fuel filters are both of the disposable type. The primary filter incorporates a water drain on the base of the filter.

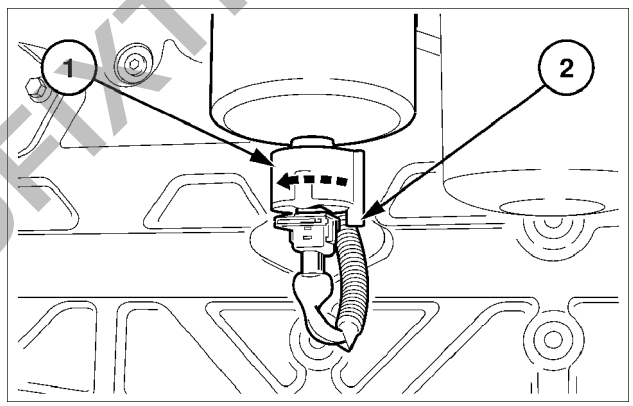


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1. Unscrew and remove the drain tap **(1)** at the base of the primary filter/ sedimenter. Allow the fuel to drain out **(2)**. Catch the fuel in a suitable container and dispose of properly.

NOTE: *To allow removal of the drain tap it may be necessary to remove the sensor wire.*

NOTE: *See also page* ***7-69*** *Fuel System Pre- Filter and Water Trap.*



BRI3786B 2

2. Unscrew and remove the filter from the filter head and dispose of properly.
3. Before installing the new filter lightly coat the filter gasket with oil.
4. Install a new filter to the head assembly and rotate until the filter gasket is touching the filter head. Then give the filter a further 3/4 turn to tighten to correct torque **15 Nm** (**11.1 lb ft**). Do not overtighten.

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DMD	LAMP	FAULT CODE	AREA of FAULT	ACTION
	-	19--	Selective Catalytic Reduction (SCR)	
	-	140-	Instrument cluster	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 authorised dealer.
	-	140-	Electronic system malfunction	
	-	140-	Data network system	
	-	141-	Steering sensor	
	-	140-	**5 V** supply voltage.	
	-	140-	Starter motor power supply.	
	-	140-	Fuel level sensor.	
	-	140-	Air brake system fault.	
	-	141-	Alternator lamp not working.	
		141- 143- 149-	Electronic locking park brake	
		149-	SWCD missing (VA)	
		149-	Configuration error	
		141-	Colour monitor present but not configured 'ON LINE'	Configure to 'ON LINE' status.

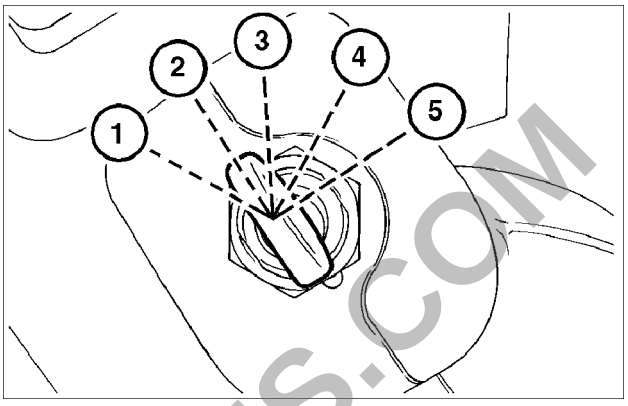
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STOPPING THE UNIT

Stopping the engine

NOTICE: *Before stopping, idle the engine at* ***1000 RPM*** *for approximately* ***1 min****. This will allow the turbocharger and manifold to cool and prevent possible distortion of components.*



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To stop the engine, carry out the following procedure:

- Sit in the driver's seat.
- Close the throttle.
- Ensure that the parking brake is firmly applied.
- Ensure the PTO is disengaged.
- Place the remote control valve levers in the neutral position.
- Lower three-point hitch mounted equipment to the ground.
- Place the shuttle lever in the park brake position.
- Turn the ignition key to the OFF position **(2)**.

Automatic engine shut down

Before attempting to start an engine that has automatically shutdown, trace and rectify the fault that caused the engine to be stopped.

Automatic engine shutdown is operated through the Engine Control Unit (ECU). In the unlikely event that one or more of the following conditions occurs then the engine will be shut down after **30 s**.

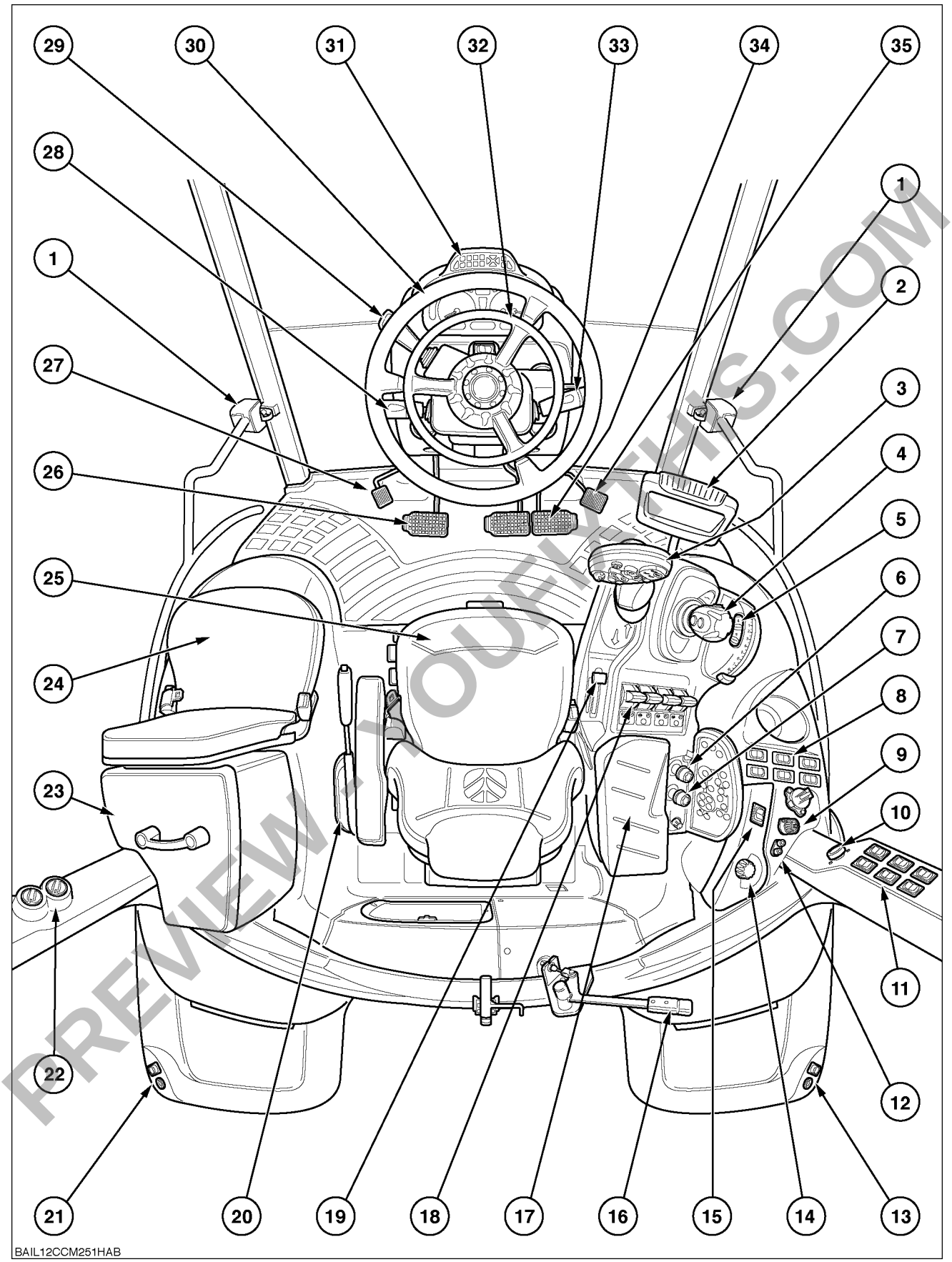
- A critical error is detected within the engine control system.
- The generated engine horsepower attempts to exceed the specified design limit.

Should either of the above occur and the engine shuts down, consult your authorised dealer before attempting further operations with the tractor.

NOTE: *Automatic engine shutdown function is permanently activated and cannot be switched off.*

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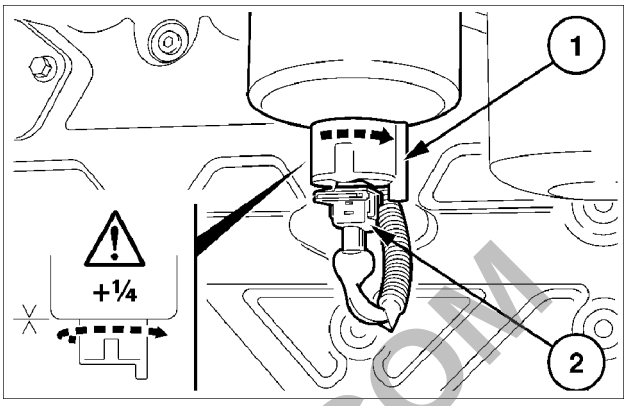


BAIL12CCM251HAB 1

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5. Lubricate the contact surface of the water drain tap then replace on the filter. Rotate the tap until it contacts the filter then rotate a further quarter turn. Do not over-tighten.



BRL6302B 3

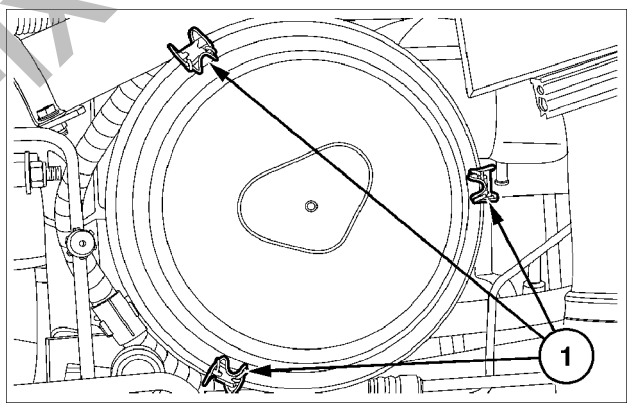
6. Remove and replace the secondary fuel filter in the same manner without step 1.

   After replacing the fuel filters it will be necessary to prime the fuel system before starting the engine, see on page **7-69**.

Change the engine air cleaner outer element

The dry air cleaner, which is located under the left- hand side of the hood, consists of an inner and outer paper element contained within an easily accessible housing.

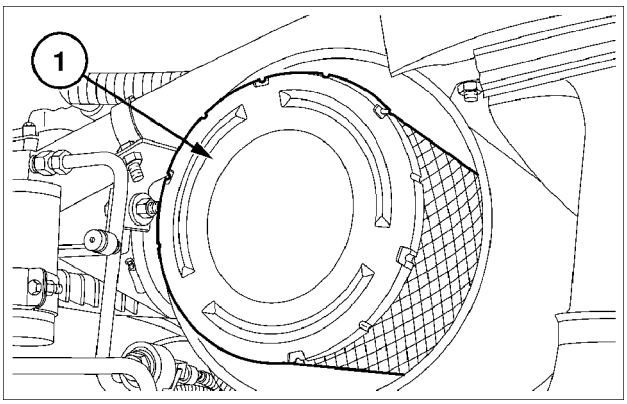
1. Unlatch the three retaining clips **(1)** and lift off the air cleaner assembly cover.



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2. Remove the outer element **(1)** from the air cleaner assembly by gently twisting the end of the filter clockwise to disengage the seal. Then pull the filter straight out of the housing, not at an angle, ensuring the inner element remains in place.

NOTICE: *Do not disturb or remove the inner element.*



BRJ4934B 2

3. Clean the inside of the air cleaner housing using a damp lint- free cloth on a probe, taking care not to damage the inner element. Install a new outer element.

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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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Air suspension seat deluxe

⚠ WARNING

Loss of control hazard!
DO NOT make seat adjustments while the machine is in motion. All seat adjustment should be made with the machine stationary and the parking brake applied.
Failure to comply could result in death or serious injury.

W0293A

The seat installed in your tractor has a comprehensive range of adjustments for height, weight and position.

NOTE: *Depending on model specification, some of the following seat functions may not be available on the seat fitted to your tractor.*

Before operating the tractor, it is important to adjust the seat to the most comfortable position. See the following text and illustrations for details.

Storage pocket

A storage pocket for documents, etc., is provided on the back of the seat.

Seat controls

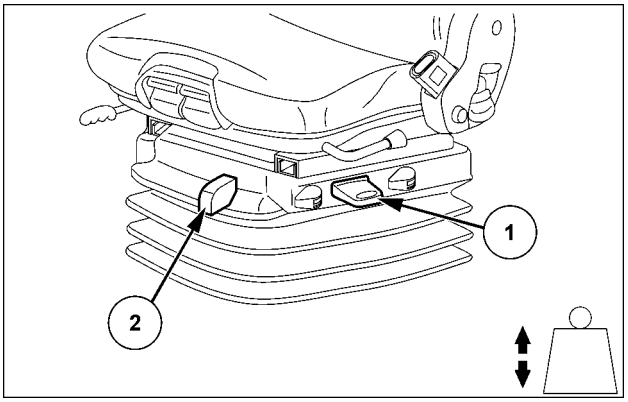
The deluxe air suspension seat offers a full range of adjustments for driver comfort. Optional heating elements in the seat cushion and backrest are provided for additional comfort in low temperatures.

Weight and height adjustment

The seat must be adjusted for the driver's weight with the driver sitting on the seat. Hold the lever **(1)** down until the seat has fully lowered. With the ignition key ON, lift the lever **(1)** and release the lever when the optimum height setting is reached. To make further adjustments, hold the lever up or down, as required, to raise or lower the seat. The green marking will be visible, when the optimum setting for the seat suspension is reached.

NOTE: *The green marking in the weight-and-height indicator **(2)** must be visible.*

NOTE: *In order to avoid damage, do not operate compressor for more than **1 min**.*



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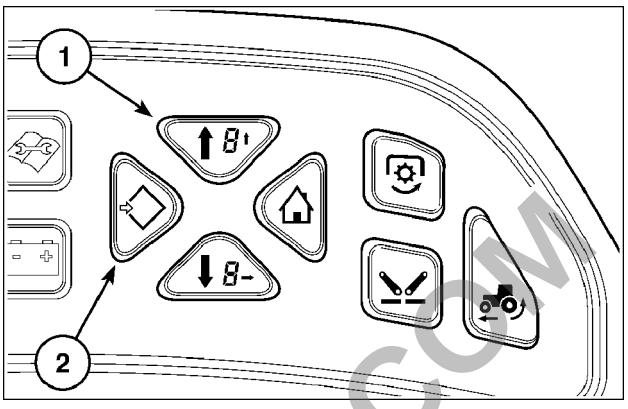
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Accessing stored fault codes

with Keypad

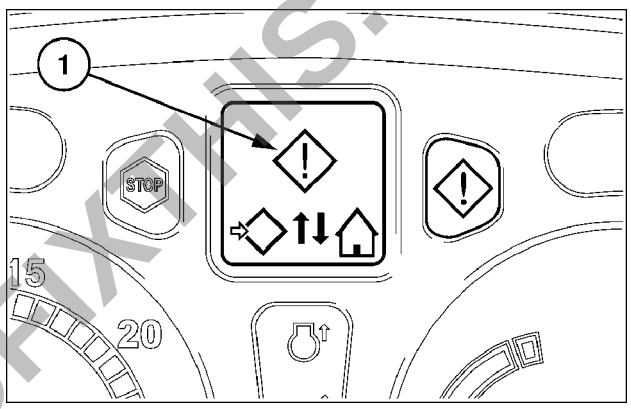
- With the key start ON, depress and hold the Menu/Enter key. SETUP MENU will appear in the DMD but this will change to the active Clock Menu. Release the Menu/ Enter key.
- By momentarily depressing the Menu/Enter key again, the active symbol will be replaced with a symbol corresponding to the fault detected.
- If more than one non--active symbol has been stored, the display will cycle through each one in turn.



BRE1456B 1

- After the fault symbols have been displayed, the screen will default back to the active warning symbol.

Depress the Exit/Cancel key to exit and return to the original display.



SS10H056 2

with Colour Display

☞ Diagnostic

☞ Fault

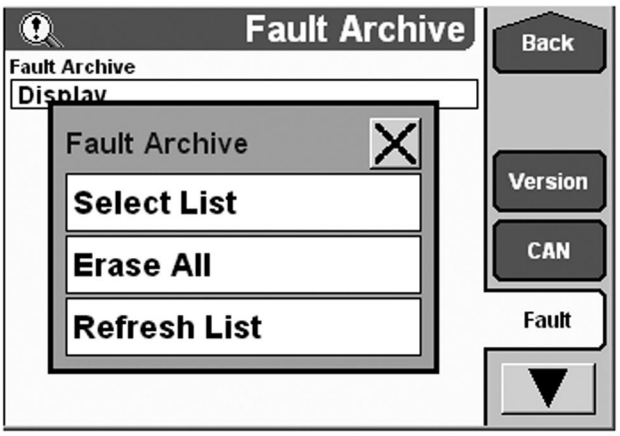
☞ Display

From the pop- up menu touch Select List to view stored error codes.

Touch Erase all to clear the memory.

If the list of error codes does not view correctly, touch Refresh List to reformat.

Touch X to exit the fault code pop- up menu.

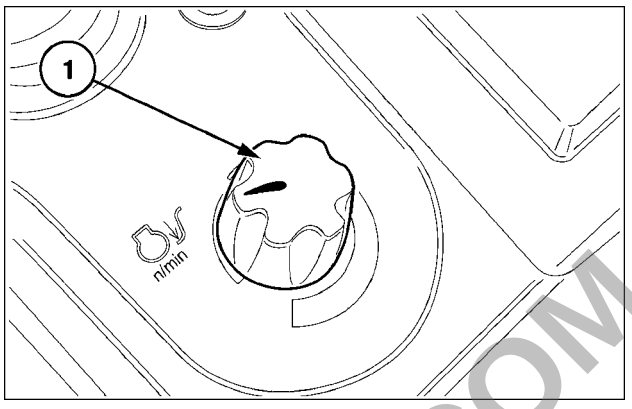


BRL6140S 3

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2nd Engine RPM Control



BRL6114C 3

The function of the 2nd Engine RPM Control **(1)** is to maintain an optimum engine speed as selected by the operator.

By monitoring the 2nd Engine RPM Control will try to maintain the most optimum engine speed for the task in hand. If additional loads are imposed on the engine, the 2nd Engine RPM Control will automatically adjust the transmission ratio to maintain engine speed.

A pop- up will appear in the colour display when the 2nd Engine RPM Control is rotated for settings to be made or adjusted. The pop- up will display both hand throttle and 2nd Engine RPM Control settings as a percentage.

The amount of additional engine load which can be applied before the 2nd Engine RPM Control is activated is adjustable by the operator to provide a speed 'band' in which the engine will operate. This figure can be shown in the colour display.

☞ Work Condition

☞ Driveline

Normal Mode

In normal mode the 2nd Engine RPM Control sets a maximum engine speed as required for the task. Select the desired engine speed using the hand throttle. With the hand throttle set, rotate the 2nd Engine RPM Control clockwise to set the maximum permissible engine speed.

Once set, the engine will maintain r.p.m. within the maximum and minimum speed settings.

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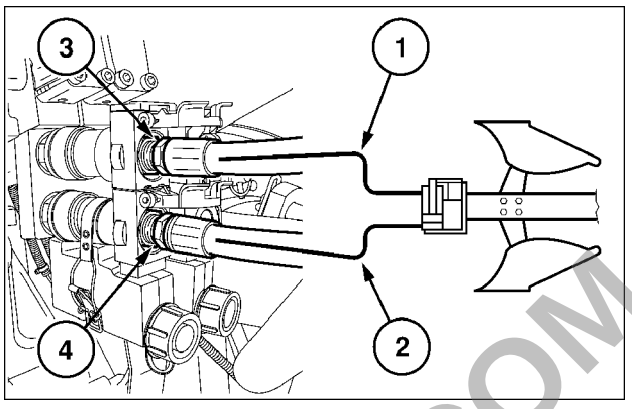
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Connecting double-acting cylinders

Connect pressure hose **(2)** from a double-acting cylinder to the lower coupler **(4)** on the remote control valve. Connect the return hose **(1)** to the upper coupler **(3)** on the same valve.

To extend a double-acting cylinder, pull the control lever back to the raise **(R)** position figure **5**.

To retract a double-acting cylinder, push the control lever forward past neutral **(N)** to the lower **(L)** position.

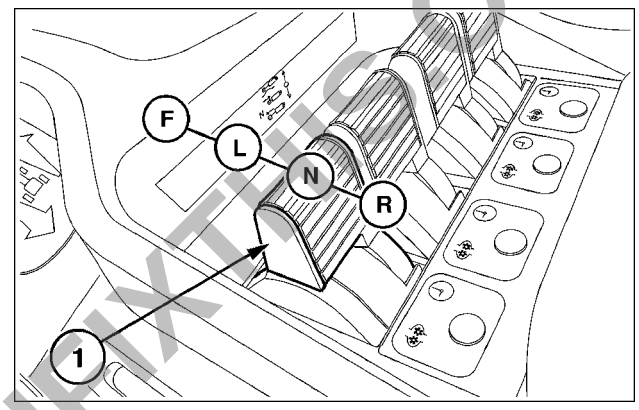


BRK5843B 4

Place the lever in the neutral **(N)** position to stop all cylinder movement.

Further forward movement of the lever will select float **(F)** which will allow the cylinder to extend or retract freely. This feature is very helpful when carrying out work with equipment such as scraper blades and loaders.

NOTE: *To prevent cylinders creeping under load, always connect the hose from the load supporting side of the cylinder to the lower coupler.*



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Rear wheel hardware torque values

⚠ WARNING

Heavy parts!
The wheels are very heavy. Handle with care. Make sure that the wheels, when stored, cannot fall over and cause injury.
Failure to comply could result in death or serious injury.

W0403A

⚠ WARNING

Roll-over hazard!
Never operate the machine with a loose wheel rim or disc. Always tighten nuts to the specified torque value and at the recommended intervals.
Failure to comply could result in death or serious injury.

W0346A

Standard washer

If your tractor is equipped with standard washers tighten the bolts to the following torques:

- with steel centre disc

Disc to hub fixings	
10 x M 22 bolt	**500 Nm** (**369 lb ft**)
Disc to rim nuts	
All wheels (M 16)	**250 Nm** (**184 lb ft**)
Split wedge bolts	
6 x M 22 bolt	**500 Nm** (**369 lb ft**)

- with cast centre disc

Disc to hub fixings	
8 x M 18 bolt	**500 Nm** (**369 lb ft**)
Disc to rim nuts	
All wheels (M 16)	**250 Nm** (**184 lb ft**)
Split wedge bolts	
6 x M 20 bolt	**300 Nm** (**221 lb ft**)

NOTE: *The diameter of the standard washer is bigger than the nut.*

Retightening:

Drive the tractor around for **5 - 10 min**, re-torque the hardware if necessary.

After one hour operation in work, re-torque the hardware.

On a daily basis thereafter, re-torque the hardware until the torque for the hardware has stabilized (no longer moves when re-torqued).

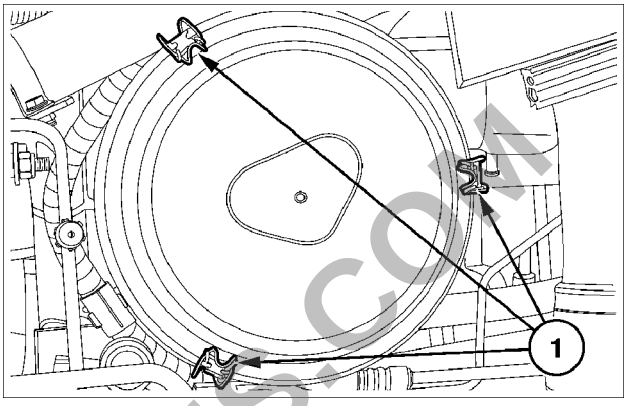
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Change the engine air cleaner inner element

The air cleaner is accessible from the left- hand side of the engine.

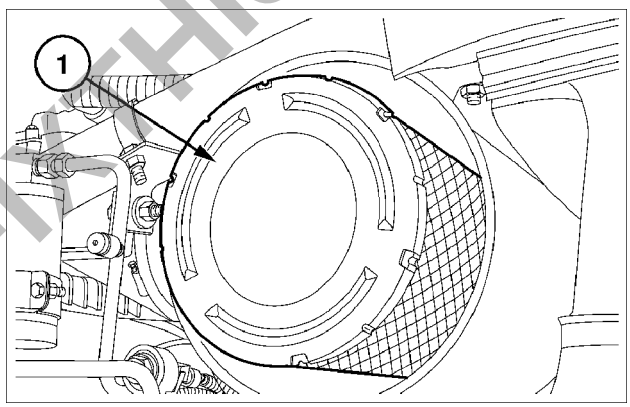
1. Unlatch the three retaining clips **(1)** and lift off the air cleaner assembly cover.



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2. Remove the outer element **(1)** from the air cleaner assembly by gently twisting the end of the filter clockwise to disengage the seal. Then pull the filter straight out of the housing, not at an angle, ensuring the inner element remains in place.

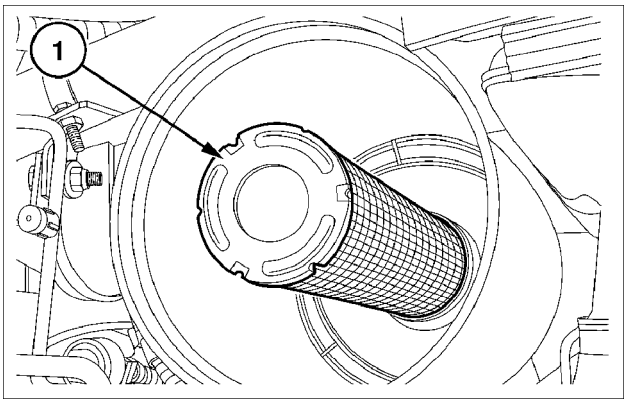
NOTE: *Examine the inside of the outer element. If dust is present, the outer element is defective and must be replaced.*



BRJ4934B 2

3. Pull the inner element straight out of the housing and dispose of properly.
4. Clean the inside of the air cleaner housing using a damp lint- free cloth.
5. Install a new inner element and a new outer element (if required). Ensure both elements are correctly seated before replacing the housing cover.

NOTICE: *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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