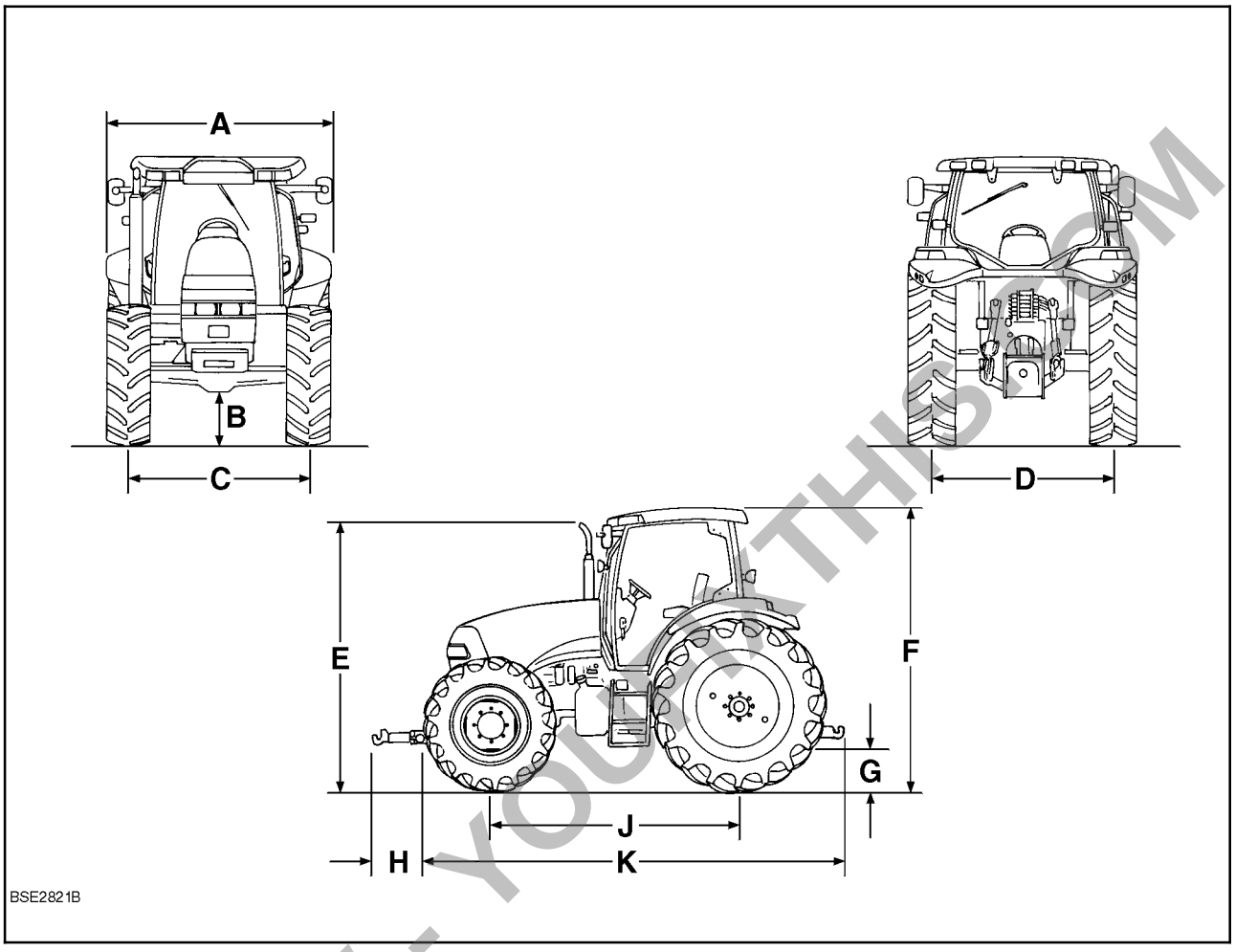
ENGINE

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.
	Fuel pump inoperative.	Check fuse. If satisfactory, replace pump.
	Clogged fuel filter(s).	Replace fuel filter element(s).
	Malfunctioning fuel 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 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.

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GENERAL DIMENSIONS



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

		1404
The following dimensions are based on tractors with tyre sizes shown:	Front	14.9 R28
	Rear	18.4 R38
A. Width across fenders		
Standard fenders	mm	2170
	in	85.4
Extended fenders	mm	2550
	in	100.3

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LUBRICATION AND MAINTENANCE CHART

Service Interval	Operation No.	Maintenance Requirement	Check	Clean	Lube	Change	Adjust	Drain	Wash	Page No.
When warning lamp lights	1	Engine air cleaner outer element	X	X						4-14
	2	Brake fluid level	X				X			4-16
	3	Fuel system water separator	X					X		4-17
Every 10 hours or daily	4	Engine coolant level	X				X			4-18
	5	Engine oil level	X				X			4-19
	6	Windscreen washer reservoir (where fitted)	X				X			4-19
Every 50 hours	7	Radiator,oil cooler and air conditioner condenser	X	X						4-20
	8	Cab air filters	X	X						4-22
	9	All grease fittings			X					4-25
	10	Front and rear wheel nut torque	X				X			4-30
	11	Tyre pressures and condition	X				X			4-30
Every 100 hours	12	A/C & Brake Compressor drive belts (where fitted)	X				X			4-31
Every 300 hours	13	Poly V-belt	X				X			4-32
	*14	Battery electrolyte level (tropical climates)	X	X			X			4-32
	15	4WD suspension cylinder upper bearing			X					4-33
	16	Transmission/rear axle/hydraulics oil level	X				X			4-34
	17	Parking brake	X				X			4-35
	18	Front P.T.O. gearbox oil level (where fitted)	X							4-35
Every 600 hours	#19	Engine oil and filter				X				4-36
	20	Transmission and hydraulic oil filters				X				4-38
	21	Air cleaner outer element				X				4-40
	22	Engine air intake connections	X							4-40
	23	Fuel Pre-filter and fuel filter elements	X			X				4-41
	24	Four wheel drive front axle and hubs oil level	X				X			4-43
Every 1200 hours or annually	25	Cab air filters				X				4-44
	26	Transmission, rear axle and hydraulic oil and filter				X				4-46
	27	Four wheel drive axle differential oil				X				4-48
	28	Four wheel drive axle hub oil				X				4-49
	29	Front P.T.O. gearbox oil				X				4-50
	30	Battery electrolyte level (temperate climates)	X	X			X			4-51
Every 1200 hours or two years	31	Engine air cleaner inner element				X				4-52
	32	Check and adjust tappet clearance	X				X			4-53
	33	Air brake drier reservoir				X				4-53

***** Batteries on tractors operating in temperate climates need only be checked every 1200 hours. See Operation 30.

Oil and filter change interval will be reduced if the diesel fuel has a high sulphur content or if the tractor is operated in extremely cold temperatures.

IMPORTANT: Operation 18. *Tractors equipped with an Argo filter should have the filter element changed every 1200 hours. This service interval applies* ***only*** *to the Argo filter, see page 4-47.*

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SECTION 3
FIELD OPERATION

BEFORE OPERATING

⚠ CAUTION ⚠

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

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

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

See Section 4 for lubrication and maintenance requirements. Tractor specifications will be found in Section 8.

This section is split into a number of different subjects, as follows. A comprehensive index is provided at the end of this manual.

PROGRAMMING TRACTOR FUNCTIONS

Your tractor utilises two memory facilities to control and memorise settings for the various electronic functions. The operating memory temporarily stores setting adjustments made while operating the tractor and these are uploaded to the main memory when you key-off (engine stop).

If you key-off and key-on again too quickly as data is being uploaded, some of it may be lost or corrupted.

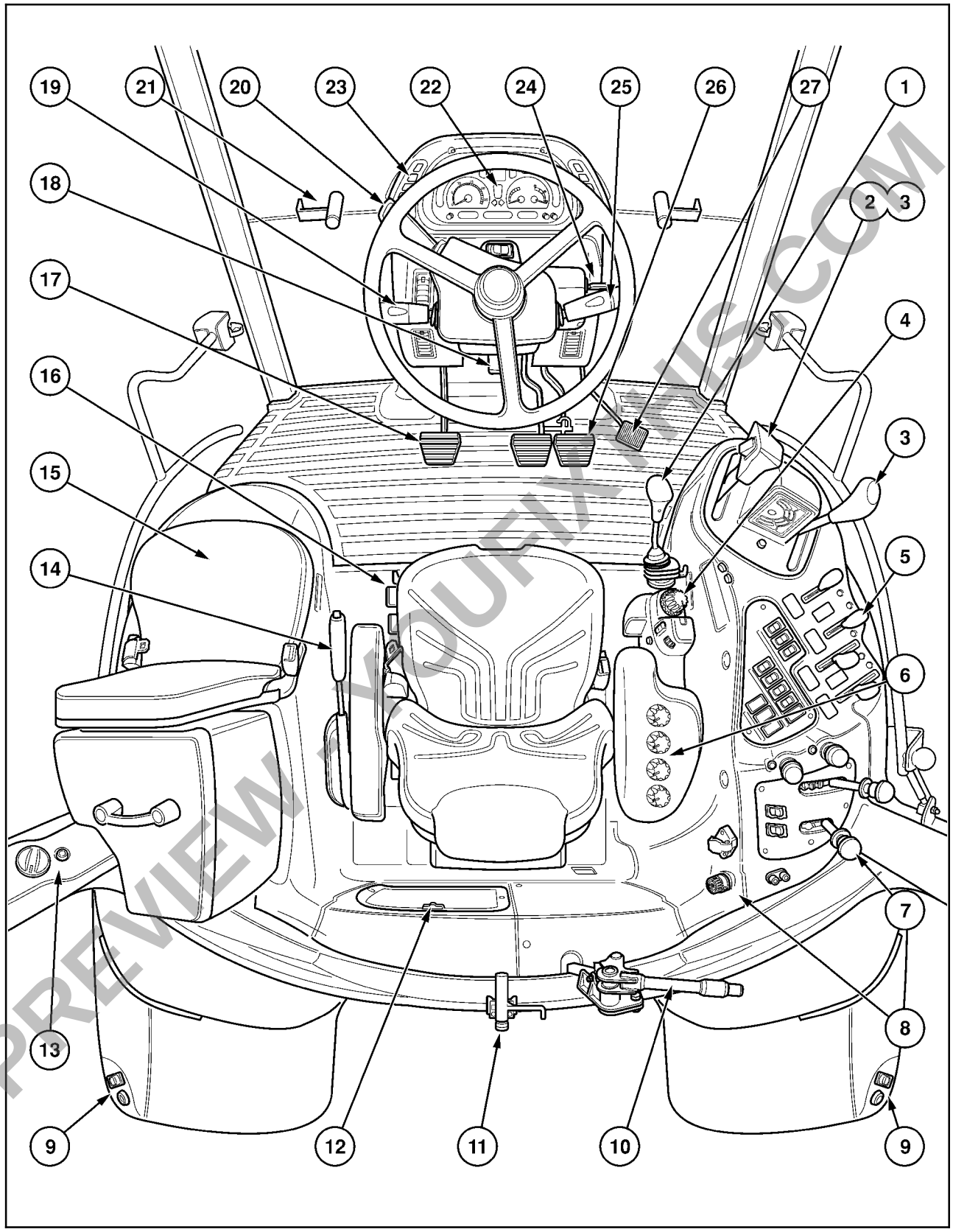
If you have made changes to any memorised settings while operating the tractor, pause for five seconds between key-off and key-on to allow the data to upload from the operating memory to the main memory. Once uploaded, the new settings will remain unchanged until they are re-programmed.

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CAB AND PLATFORM CONTROLS



1

General View of Tractor Controls

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SAFETY PRECAUTIONS

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

PRECAUTIONARY STATEMENTS

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

MACHINE SAFETY

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

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

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

PERSONAL SAFETY

⚠ CAUTION ⚠

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

⚠ WARNING ⚠

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

⚠ DANGER ⚠

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

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

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Only allow properly trained and qualified persons to operate the tractor.
3. To prevent falls, use the handrails and step plates when getting on and off the tractor. Keep steps and platform clear of mud and debris.
4. Replace all missing, illegible or damaged safety decals.
5. Keep safety decals free of dirt or grime.



6. Do not permit anyone but the operator to ride on the tractor except for driver training or instruction. When used for these purposes an additional seat may be fitted in the cab. Passengers should not be carried on the tractor at any time.
7. Keep children away from the tractor and farm machinery at all times.
8. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting your dealer.
9. Install all guards before starting the engine or operating the tractor.

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NOTES

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AXLE LOAD LIMITS

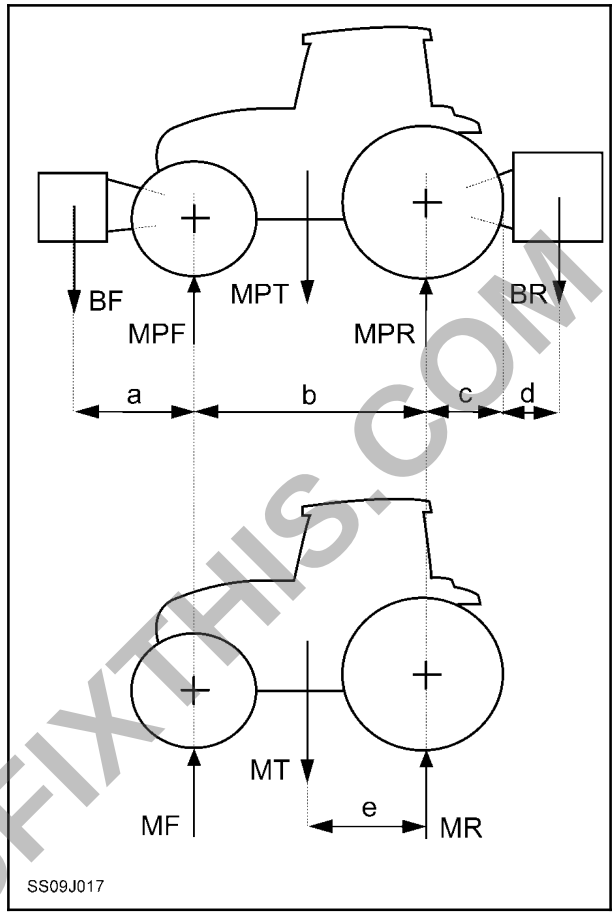
TO CALCULATE	
MPF	MPF < MPF max
MPR	MPR < MPR max
MPT	MPT < MPT max

CALCULATION OF MPF
(MPF*B) – BF*(A + B) – (MT*E) + BR*(C + D)
MPF = [BF * (a+b) + (MF*b) – BR*(c+d)]/b < MPF max

CALCULATION OF MPT
MPT = BF + MT + BR < MPTmax

CALCULATION OF MPR
MRT = MPT – MPF < MPR max

MF	Front axle load unladen tractor	This manual



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Multi-function Switch

The stalk-type switch is mounted on the left-hand side of the steering column. The switch controls the tractor lights, horn and turn signals.

The centre of the stalk switch rotates. With reference to Figure 67, turn the switch away from you, to position 2, to turn on the instrument and position lights. Turn the switch to position 1 to select the headlights.

With the headlights on, push the stalk away from you, position 3, to change from dipped to high beam. Pull the stalk towards you, position 4, to change back to dipped beam. With high beam selected, the blue indicator light on the instrument panel is illuminated.

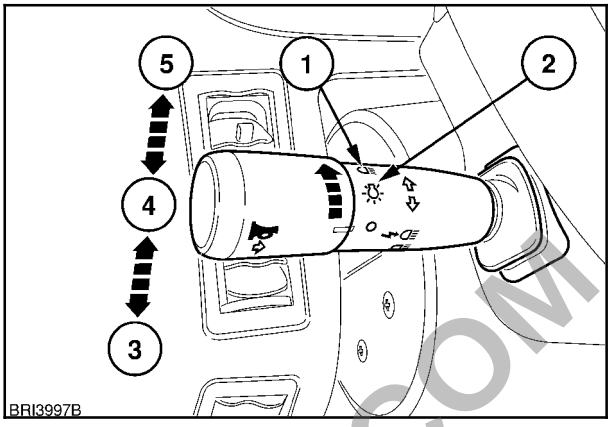
With the headlights off, pull the stalk towards you, position 5, against spring pressure, to flash the headlight high beam. The stalk will return to the central position when released.

Move the stalk to position 6 to operate the right turn signals, position 7 will activate the left turn signals. Indicator lights on the instrument panel will also flash when the turn signals are actuated. A warning buzzer will sound if the indicators are not cancelled within 20 seconds.

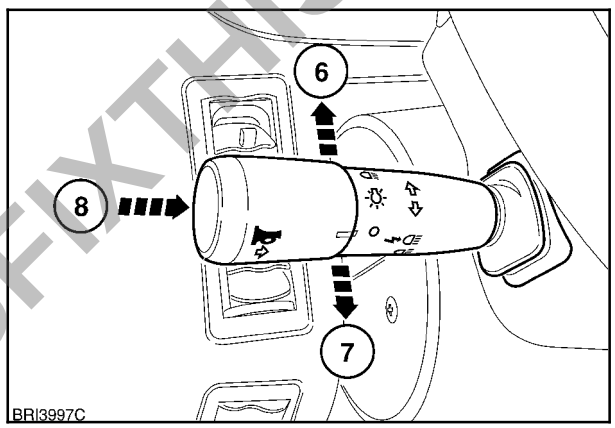
NOTE: *With the optional self cancelling indicators fitted, the warning buzzer is deleted.*

NOTE: *The turn signals will only operate with the key-start switch turned on.*

Press in the end of the stalk, position 8, to sound the horn.



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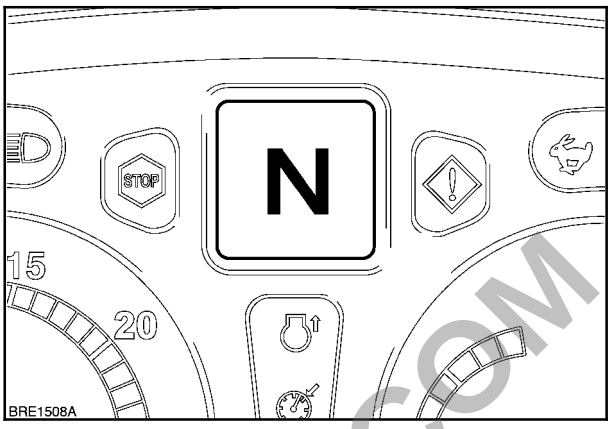
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NOTE: *With the tractor stationary and the shuttle lever in forward or reverse drive, moving the main shift lever from neutral without first depressing the clutch pedal will result in the drive not being engaged. Error code 'N' will appear in the transmission display and an audible alarm will sound. Depress the clutch pedal and shift the shuttle lever to neutral to clear the display and re-engage the drive.*

NOTE: *To avoid power losses due to internal friction, place both gearshift lever and the shuttle lever in neutral when performing stationary operations.*

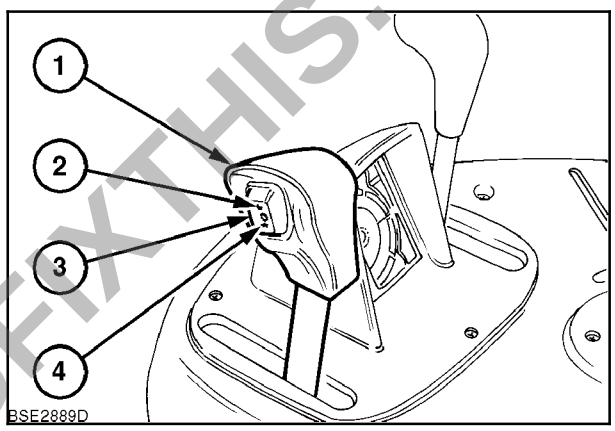


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The hand throttle (1), incorporates a spring centered powershift control that is used to make instantaneous up or down powershifts. Depress the top of the powershift control (2) to make upward changes, depress the bottom of the control (4) for downward changes. It is not necessary to use the clutch pedal to make a powershift.

On some models, a duplicate set of shift buttons may be located on the right-hand control panel, see Figure 127.

To make an upward change between gears 4 and 5 hold in the intermediate range change button (3) and depress the upshift control (2),. The change will be indicated in the gear display. Use the same procedure to change from gear 12 to 13.



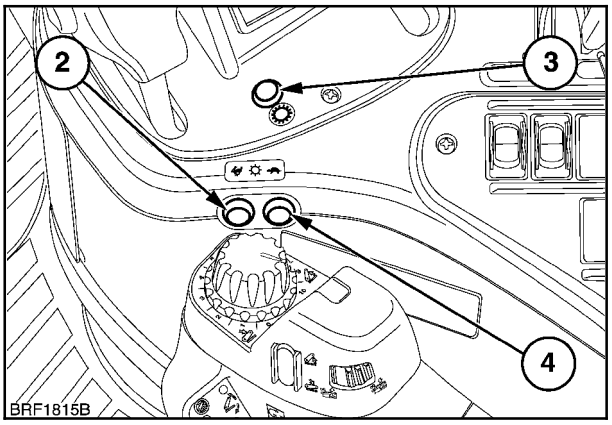
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Downward changes are made using the same procedure but depressing the downshift control (4). If preferred, the clutch pedal may be used instead of the intermediate range change button.

NOTE: *Attempting to shift from one range to another without using the range change button or clutch pedal will cause the audible alarm to sound.*

When the main shift lever is moved forward from neutral or from any gear within the 1-8 range, 9th. gear will always be selected.

Conversely, if the lever is moved rearward from neutral or from the 9-16 range with the tractor moving, the speed matching function will select the most suitable gear between 5th and 8th. To select an alternative gear, maintain pressure on the clutch pedal and use the powershift control to engage a different gear, then release the clutch pedal.



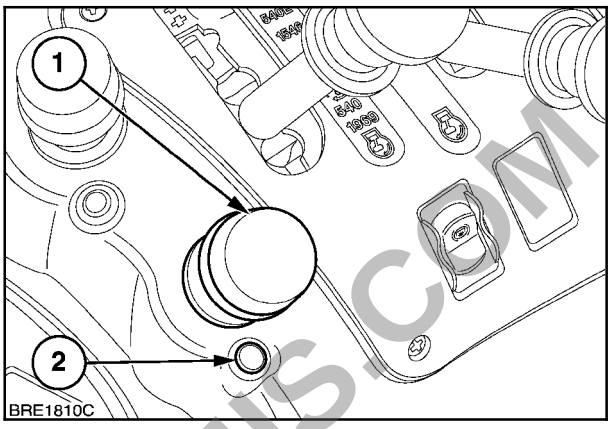
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REAR POWER TAKE-OFF

Description

The P.T.O. is engaged and disengaged by means of a knob (1) on the right-hand console. The adjacent warning light (2) will illuminate when the P.T.O. is engaged.



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Two types of rear P.T.O. system are available, dependent upon tractor model and country.

a) Three-speed, shiftable P.T.O. with inter-changeable output shafts and the option of fender-mounted switches for stationary P.T.O. work.

b) Three-speed ground drive P.T.O., available in conjunction with three speed shiftable P.T.O. above.

An automatic 'soft start' facility is provided on all models to permit easy start up of heavy, high inertia, P.T.O.-driven equipment.

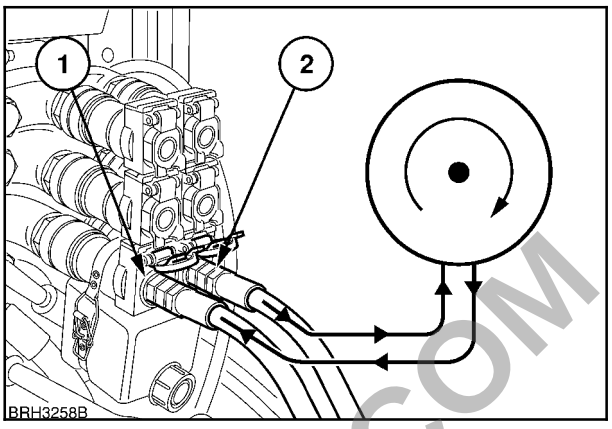
Soft start modulates P.T.O. clutch torque over the first 5 seconds of engagement to provide a slower, gradual take up of the drive.

NOTE: *Soft start only operates at engine speeds of 1800 rev/min and below. Above this speed, normal P.T.O. engagement will occur.*

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Operating Continuous Flow Hydraulic Equipment



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Continuous flow hydraulic equipment (e.g. hydraulic motors) should be connected to the remote control valve couplers with the feed hose (2) connected to the right-hand coupler and the return hose (1) connected to the left-hand coupler of the same valve.

Use the 'lower' position to operate a hydraulic motor.

IMPORTANT: *To stop the motor, move the lever forward from the 'lower' position to the 'float' position. The motor will then slow to a halt and not stop abruptly causing internal line pressures which, unless relieved by special valving, could damage the motor seals. Never select the neutral or raise positions when the motor is operating.*

Observe the following to further protect the tractor and equipment:

- Do not open any by-pass valve in the equipment or motor. To adjust the speed of a hydraulic motor, use the flow control on the implement (where fitted) or, adjust the engine speed to control the rate of flow or speed of the motor.
- Do not hold the remote control valve lever to operate the equipment. If the detent will not hold the lever in the lower position, check the equipment for proper adjustment or contact your dealer for assistance in adapting the equipment to suit the tractor.
- To assure optimum hydraulic oil cooling and prevent overheating, operate continuous flow equipment at the lowest engine speed that will give the required machine performance and speed.

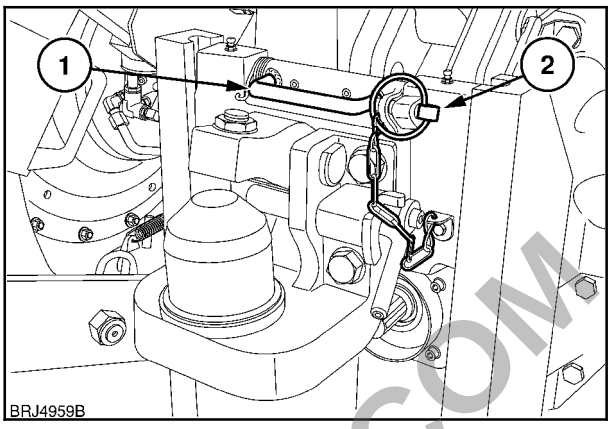
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Slider Frame with K 80 Ball

The tow hitch shown is equipped with a height adjustable, 80 mm ball assembly.

Remove the securing clip (2) and lift the handle (1) to the vertical position. Lifting the handle will rotate the pins and disengage them from the notches in the frame. Using both hands on the handle, lift or lower the tow ball assembly as required. When at the required height, support the tow ball with one hand and allow the handle to lower to the horizontal position. The pins will rotate and re-engage the notches in the frame. Lower the P.T.O. guard.

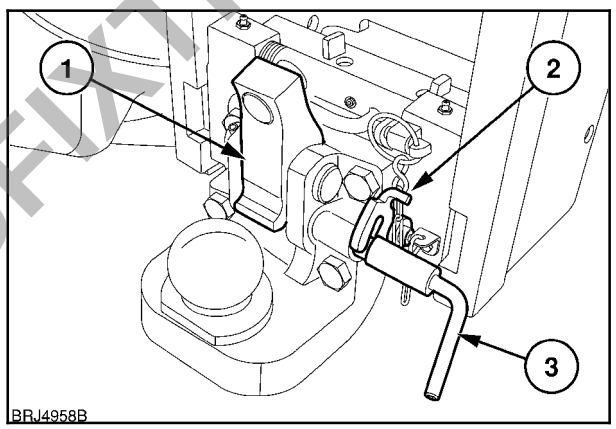


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IMPORTANT: *When setting the height of the tow ball, it should be adjusted to the lowest position relative to the correct operating height of the implement drawbar.*

To attach a trailer, lift up the retaining catch (2) and pull out the locking pin (3). This will allow the security latch (1) to pivot forwards toward the tractor. When the implement drawbar has been securely attached, replace the locking pin so it passes through the security latch and re-insert the 'R' clip.

NOTE: *The static downward load on the tow ball in its lowest operable position must not exceed 3000 kg (6600 lb.) or the rear tyre load capacity, whichever is lower. (See Tyre Pressures and Permissible Loads at the end of Section 3).*



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On site storage tanks should be clean and free of sediment. The use of a fuel filter and water separator is recommended. It is also recommended that the tank, hose(s) and seal materials used are compatible with Biodiesel.

For any query on Biodiesel or if you wish to use any Biodiesel blend, please first consult your authorised Dealer to receive full information about the approved Biodiesel blends for your engine and detailed conditions of Biodiesel usage.

IMPORTANT: *Be aware that not fulfilling the requirements and following the conditions of Biodiesel usage may void the Warranty cover.*

IMPORTANT: *The use of COLD PRESSED Biodiesel fuels are NOT recommended for use in the engine of your tractor.*

***Limitations to the use of Biodiesel Fuels**

Biodiesel Fuel B5

- No limitation.

Biodiesel Fuel B20

- Engine oil and filter change service interval may be shortened.
- Not recommended for use in temperatures below – 9° C (16° F).
- Check your engine oil daily, if the oil level increases, contact your authorised dealer.

Biodiesel Fuel B100

- Engine oil and filter change service interval may be shortened.
- Not recommended for use in temperatures below 5° C (41° F).
- Check your engine oil daily, if the oil level increases, contact your authorised dealer.

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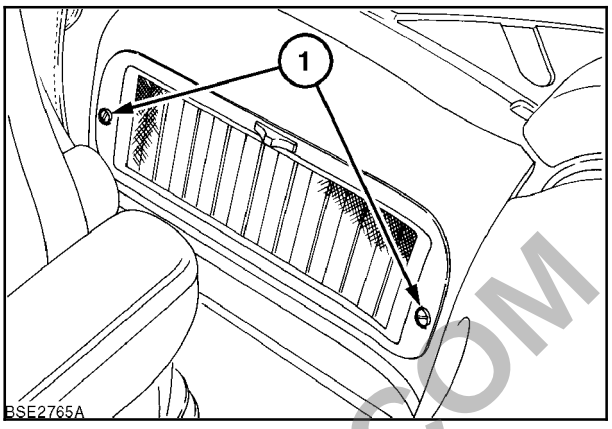
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Internal Filter

To remove the internal filter turn captive screws (1) until the cover is loose.

Remove the filter cover and the filter element. Dispose of the filter element properly.

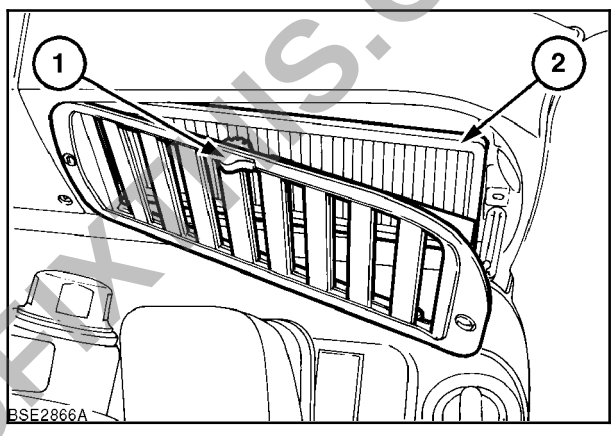
Clean the filter chamber with a damp lint-free cloth.



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

Re-install the filter cover.



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TRANSMISSION - SEMI-POWERSHIFT

PROBLEM	POSSIBLE CAUSE	CORRECTION
Tractor does not drive in any gear	Error code will indicate source of malfunction.	See your authorised dealer.
Poor inching control when using inching pedal (clutch pedal)	Transmission clutch fill time out of adjustment.	See your authorised dealer.
Jerky gear shifting	Transmission clutches require calibration.	Perform transmission clutch calibration procedure or see your authorised dealer.
Jumping out of gear or holding in gear	Worn synchronisers/couplers. Gear linkage out of adjustment.	See your authorised dealer.
High transmission operating temperature	Low oil level. Incorrect oil grade/viscosity. Dirty or blocked transmission oil cooler.	Add oil, as required. Drain and refill with oil of the correct specification. Clean.
Low transmission oil pressure	Low oil level. Incorrect oil grade/viscosity. Blocked transmission oil filter.	Add oil, as required. Drain and refill with oil of the correct specification. Replace filter.
Noisy transmission	Low oil level. Incorrect oil grade/viscosity. Worn bearings or failed parts.	Add oil, as required. Drain and refill with oil of the correct specification. See your authorised dealer.
Gear engagement difficult	Incorrect linkage adjustment or worn linkage. Worn shift forks/selectors. Worn bearings.	Adjust linkage, replace worn parts or see your authorised dealer. See your authorised dealer. See your authorised dealer.
Clutch squeal/whine when inching	Clutch leaking or drive plates worn.	See your authorised dealer.
Jerky powershifting or tractor stops	Transmission requres calibrating.	See your authorised dealer.

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