Maxxum

MXU100, MXU110, MXU115, MXU125 and MXU135 Tractors

Operators Manual

6–36212

CASE IH

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CONTENTS

Title **Page**

Section 1 – General Information and Safety

To the owner 1–1
Product identification 1–2
Ecology and the environment 1–5
Safety precautions 1–6
Safety decals 1–12
International symbols 1–16
Airborne noise emission 1–17

Section 2 – Controls, Instruments and Operation

Cab 2–7
Seats 2–24
Handbrake, Throttle and Foot Controls 2–28
Instrument Console 2–30
Analogue/Digital Instruments 2–35
Synchroshift Transmission (12 x 12) 2–61
Two–speed Powershift Transmission (24 x 24) 2–67
Semi–Powershift Transmission (16 x 16 and 17 x 16)) 2–78
Differential Lock and Four Wheel Drive 2–94

Section 3 – Field Operation

Important Information 3–2
Using Jump Leads (Booster Cables) 3–4
Starting and Stopping the Engine 3–6
Engine Power Management 3–9
Fast Steer 3–12
Rear Power Take–Off 3–13
Front Power Take–Off and Hydraulic Lift 3–31
Mechanical Lower Link Sensing Hydraulics 3–39
Electronic Draft Control 3–45
Headland Management Control 3–57
Remote Control Valves 3–63
Electro–Hydraulic Remote Control Valves 3–71
Three–point Linkage 3–83
Quick Hitch 3–89
Linkage Stabilisers 3–94
Drawbars and Towing Attachments 3–96
Hydraulic Trailer Brakes 3–108
Air-Operated Trailer Brakes 3–110
Front Wheel Track Adjustment 3–116
Rear Wheel Track Adjustment 3–123
Ballasting and Tyres 3–130

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

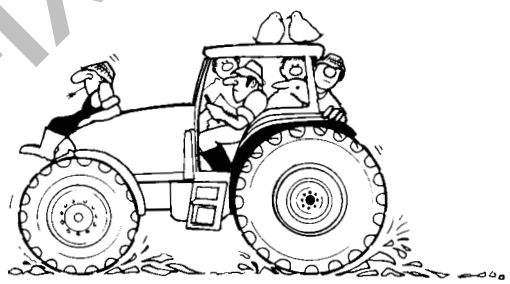
DANGER

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.

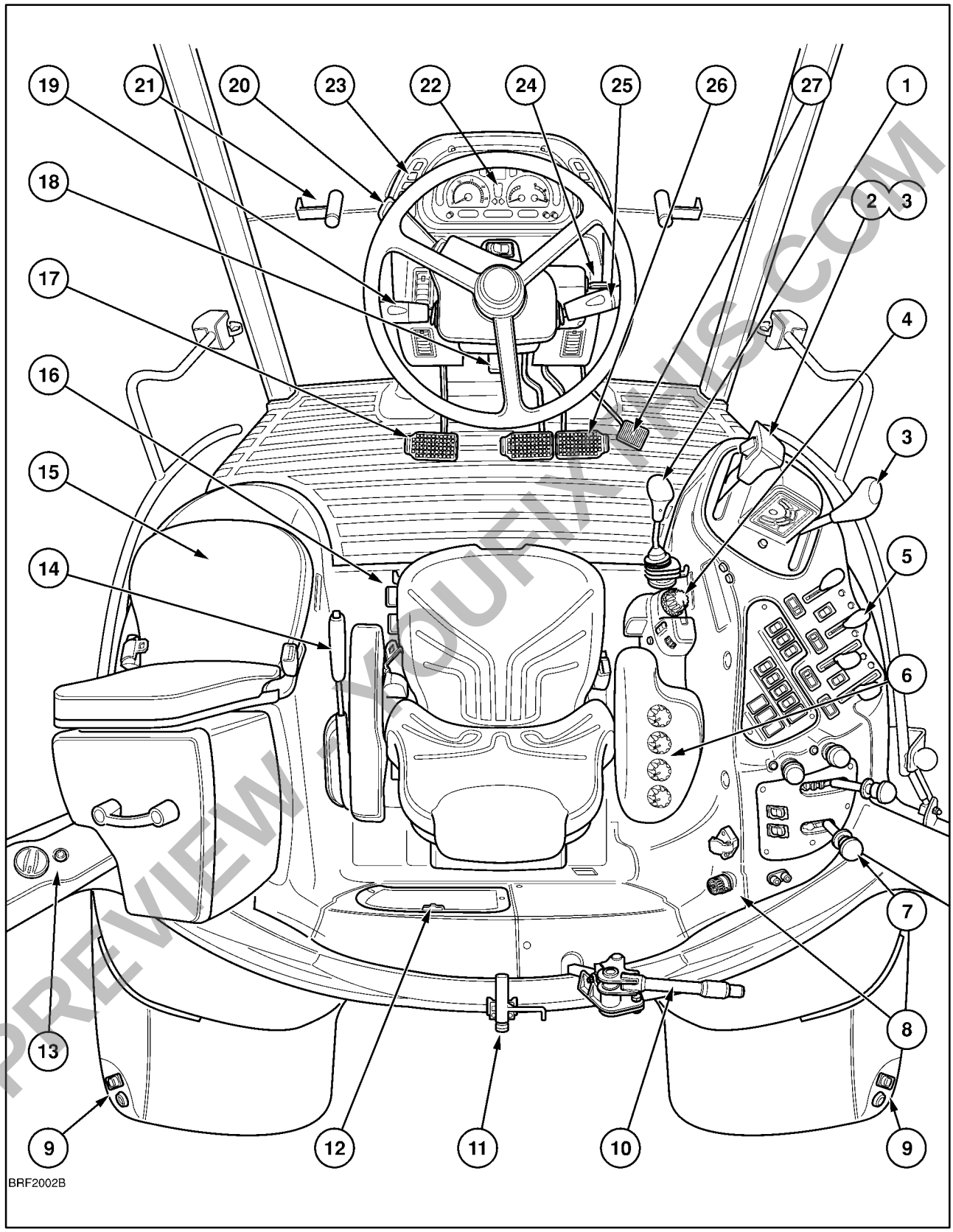


6. Do not permit anyone but the operator to ride on the tractor except for driver training or instruction. When used for these purposes an additional seat may be fitted in the cab. Passengers should not be carried on the tractor at any time.
7. Keep children away from the tractor and farm machinery at 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.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CAB AND PLATFORM CONTROLS



1

General View of Tractor Controls – With Cab

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

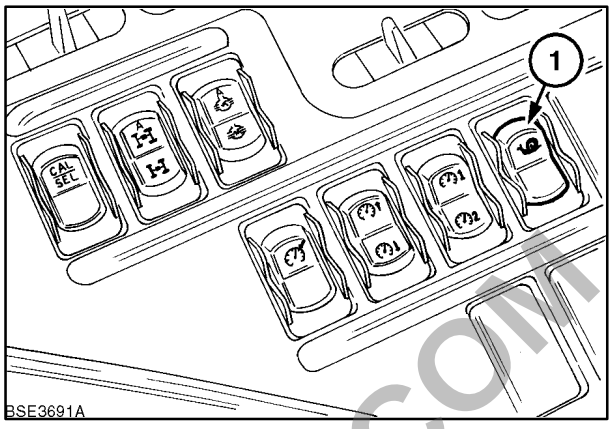
Creeper Gears (where fitted)

For operations requiring extra low ground speeds, reduction gear sets (creeper gears) are available.

The reduction gear set has the effect of reducing all the ratios within the main transmission to provide an additional eight gears in forward and reverse.

The creeper gears are selected by means of a rocker switch (1) located on the right-hand control console.

With the engine running, clutch depressed and the shuttle lever in neutral, apply and hold down the tractor footbrakes. Momentarily depress the lower part of the selector switch (1), Figure 110, to engage the creeper gears.

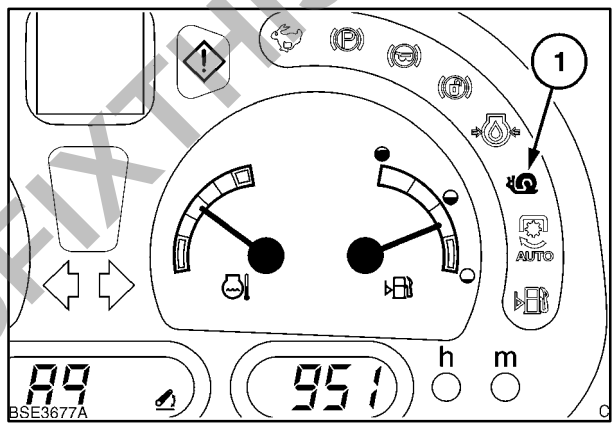


110

The creep speed symbol (1), will appear flashing in the transmission display. When the creep gears are fully engaged the symbol will cease to flash and become steady.

To disengage creeper gears, repeat the above procedure and depress the selector switch again. The creep speed symbol will cease to illuminate.

IMPORTANT: *The creeper gears offer very low ground speeds. Do not use the low gearing advantage to apply excessive draft loads to the tractor.*



111

Error Codes

Should a fault occur in the transmission controls, 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. Disabling error codes are as follows:

Error Code	Fault
2011	Clutch pedal potentiometer signal too low.
2012	Clutch pedal potentiometer signal too high.
2021	Drive line harness disconnected.
2035	Dump solenoid closed circuit.
2036	Dump solenoid open circuit.
2037	Clutch disconnect switch open circuit.
2038	Clutch 3 solenoid short circuit.
2039	Clutch 3 solenoid open circuit.
2040	Clutch 4 solenoid short circuit.
2041	Clutch 4 solenoid open circuit.
2048	Clutch pedal switch set too low.
2053	5 volt reference failed, shorted to 12 volts.
2054	5 volt reference failed, shorted to earth (ground).
C	Wheel speed too high for creeper gears.
CP	Depress clutch pedal to enable transmission (restore drive).

Transmission Calibration

Should transmission shifts become slow or jerky, the clutches in the transmission may require re–calibrating. Consult your authorised dealer.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

DRIVING THE TRACTOR

1. Always sit in the driver's seat while starting or driving the tractor.

2. When driving on public roads, have consideration for other road users. Pull in to the side of the road occasionally to allow any following traffic to pass. Do not exceed the legal speed limit set in your country for agricultural tractors.

3. Use a rotating beacon when driving on public roads to indicate that the vehicle is slow moving and is a possible hazard.

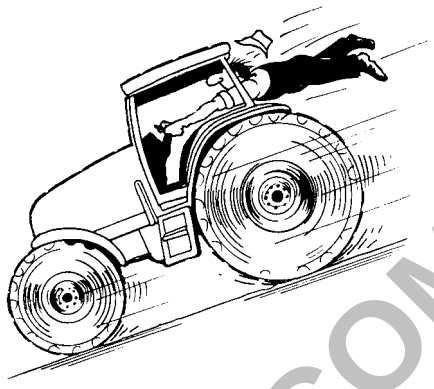
4. Dip the tractor lights when meeting a vehicle at night. Make sure the lights are adjusted to prevent blinding the driver of an oncoming vehicle.

5. Reduce speed before turning or applying the brakes. Brake both wheels simultaneously when making an emergency stop. Ensure that both brake pedals are locked together when travelling at road speeds or when on public roads to ensure correct operation of trailer brakes, balanced operation of the tractor brakes and four wheel braking (4WD tractors only).



6. On four wheel drive tractors, the drive to the front axle is automatically engaged, to provide four wheel braking, when both footbrakes are applied. Owners should be aware of the effectiveness of four wheel braking which greatly enhances braking performance. Appropriate care should be exercised during fierce braking.

7. Use extreme caution and avoid hard application of the tractor brakes when towing heavy loads at road speeds.



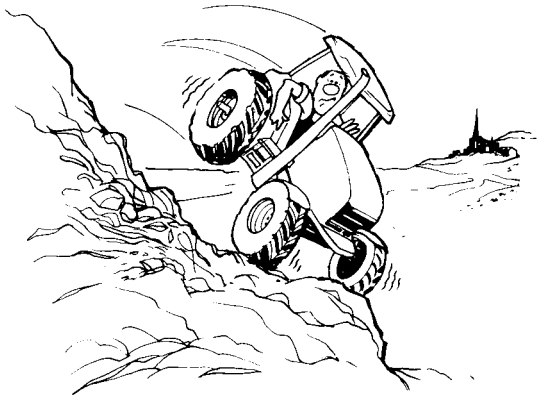
8. Keep the tractor in the same gear when going downhill as would be used when going uphill. Do not coast or freewheel down hills.

9. For safe operation any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with a braking system that complies with the legal requirements of that country.

10. Never apply the differential lock when turning. When engaged, the differential lock will prevent the tractor from turning.

11. Always check overhead clearance, especially when transporting the tractor. Watch where you are going, especially at row ends, on roads and around trees and low overhanging obstacles.

12. To avoid overturns, drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches or slopes and when turning corners.



13. Use extreme caution when operating on steep slopes.

14. If the tractor becomes stuck or the tyres are frozen to the ground, reverse the tractor out to prevent overturning.

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

MOVING A WHEEL ON THE AXLE SHAFT

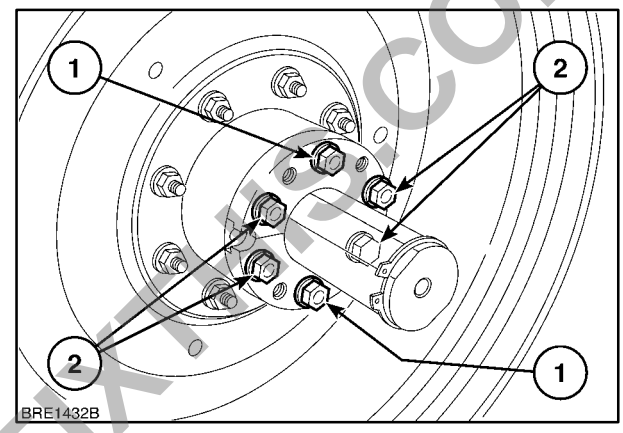
Block the front wheels and jack up and support the rear axle.

Adjustment of the track setting is achieved by sliding the complete wheel/hub assembly on the axle shaft.

Loosen the two centre wedge bolts (1) Figure 218, approximately 0.5 in. (12 mm). Remove the four outer wedge bolts (2).

Clean the bolts and threaded holes in the wedges before lubricating and installing the outer wedge bolts at (1) Figure 219. These bolts are used as jack bolts to push against the wedges. Tighten the jack bolts evenly until the wedges loosen on the axle shaft. The wheel assembly will now be free to slide in or out on the axle shaft.

IMPORTANT: *Do not use a torque greater than 300 ft.lbs. (407 N·m) on the jack bolts. The use of penetrating oil between the wedge and axle shaft will be of benefit. If difficulty is experienced, place a shaft protector over the end of the axle shaft and strike with a hammer to 'shock' the wedge free.*



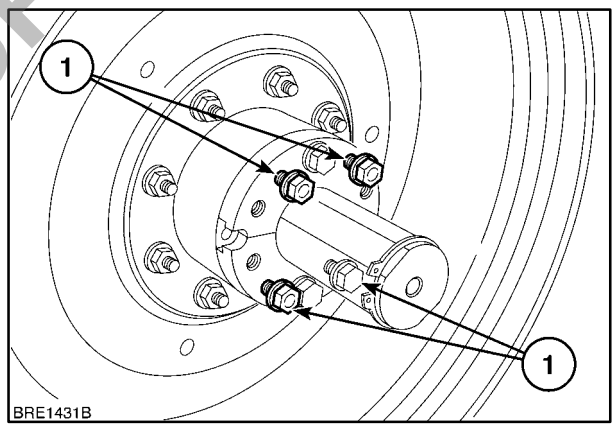
218

⚠ WARNING ⚠

Take suitable precautions, including the use of safety glasses, against the possibility of flying metal particles.

Set the wheel to the desired position on the shaft. Remove the jack bolts and replace them in the outer holes (2) Figure 219.

Tighten all six wedge retaining bolts in increments of 50 ft.-lbs. (68 Nm) until a final torque of 221 ft.-lbs. (300 Nm) is achieved.



219

IMPORTANT: *The wedge bolts must be tightened evenly.*

Repeat the procedure on the other wheel, making sure that both rear wheels are the same distance from the ends of the axle shafts.

NOTE: *Check the torque of all six wedge retaining bolts on each wheel after driving the tractor for 200 yards (200 m), after 1 hour and 10 hours operation and thereafter at the 50-hour service intervals.*

⚠ WARNING ⚠

Never operate the tractor with a loose wheel rim or disc. Always tighten nuts to the specified torque and at the recommended intervals.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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						4–9
	2	Engine coolant level	X				X			4–11
	3	Brake fluid level	X				X			4–12
	4	Fuel system water separator	X					X		4–12
Every 10 hours or daily	5	Engine oil level	X				X			4–13
	6	Windscreen washer reservoir (where fitted)	X				X			4–13
	7	Air reservoir(s) trailer brakes (where fitted)	X					X		4–14
Every 50 hours	8	Radiator,oil cooler and air conditioner condenser	X	X						4–15
	9	Cab air filters	X	X						4–16
	10	All grease fittings			X					4–18
	11	Front and rear wheel nut torque	X				X			4–24
	12	Tyre pressures and condition	X				X			4–25
	13	Remote control valve drain bottle(s)	X							4–25
Every 100 hours	14	Poly V–belt	X				X			4–26
	15	A/C & Brake Compressor drive belts (where fitted)	X				X			4–26
Every 300 hours	*16	Battery electrolyte level (tropical climates)	X	X			X			4–27
	17	Four wheel drive front axle and hubs oil level	X				X			4–28
	18	Front suspension cylinder upper bearing			X					4–28
	19	Transmission/rear axle/hydraulics oil level	X				X			4–29
	20	Cab and safety frame mounting bolts torque	X				X			4–29
	21	Parking brake	X				X			4–31
Every 600 hours	#22	Engine oil and filter				X				4–32
	23	Hydraulic and transmission oil filters				X				4–34
	24	Air cleaner outer element				X				4–35
	25	Engine air intake connections	X							4–35
	26	Fuel Pre–filter and fuel filter elements	X			X				4–36
Every 1200 hours or annually	27	Cab air filters				X				4–38
	28	Transmission/rear axle/hydraulic oil and filter				X				4–39
	29	Four wheel drive axle differential oil				X				4–40
	30	Four wheel drive axle hub oil				X				4–41
	31	Battery electrolyte level (temperate climates)	X	X			X			4–42
Every 1200 hours or two years	32	Engine coolant				X				4–43
	33	Engine air cleaner inner element				X				4–47
	34	Check and adjust tappet clearance	X				X			4–48
General Maintenance	35	Bleeding the fuel injection system	X				X			4–49
	36	Footbrakes	X				X			4–50
	37	Engine idle speed	X				X			4–50
	38	Automatic pick–up hitch	X				X			4–51
	39	Air conditioner	X				X			4–51
	40	Headlight and worklamp adjustment	X			X				4–52
	41	Bulb replacement	X			X				4–53
	42	Fuse replacement	X			X				4–56

***** Batteries on tractors operating in temperate climates need only be checked every 1200 hours. See Operation 31.

Oil change interval will be reduced if the diesel fuel has a high sulphur content or if the tractor is operated in extremely cold temperatures. See page 4–32.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CAPACITIES		MXU100	MXU110	MXU115	MXU125	MXU135
Fuel tank	Litres	177	177	220	220	220
	US gals	46.7	46.7	58.1	58.1	58.1
Cooling system	Litres	23	23	25	25	25
(with cab)	US gals	6.07	6.07	6.6	6.6	6.6
Cooling system	Litres	21	21	23	23	–
(less cab)	US gals	5.54	5.54	6.07	6.07	–
Engine	Litres	10	10	15	15	15
(including filter)	US qts	2.64	2.64	3.96	3.96	3.96
Transmission/rear axle						
(with 12x12, Light Duty axle)	Litres	58	–	–	–	–
	US gals	15.3		–		
(with 12x12, Heavy Duty axle)	Litres	65	–	65	–	–
	US gals	17.1		17.1		
(with 24x24, Light Duty axle)	Litres		58.5	–	–	–
	US gals		15.4	–	–	–
(with 24x24, Heavy Duty axle)	Litres			65.5		
	US gals			17.3		
(with 16x16, Light Duty axle)	Litres		55	–	–	–
	US gals		14.5	–	–	–
(with 16x16, Heavy Duty axle)	Litres			62		
	US gals			16.3		
4WD Front hubs (w/o brakes)	Litres			1.25		
(quantity for **one** hub only)	US qts			1.3		
4WD Front hubs (with brakes)	Litres			3.0		
(quantity for **one** hub only)	US qts			3.2		
4WD Front axle differential	Litres		7.5		9.0	
(All axles)	US qts		7.92		9.5	

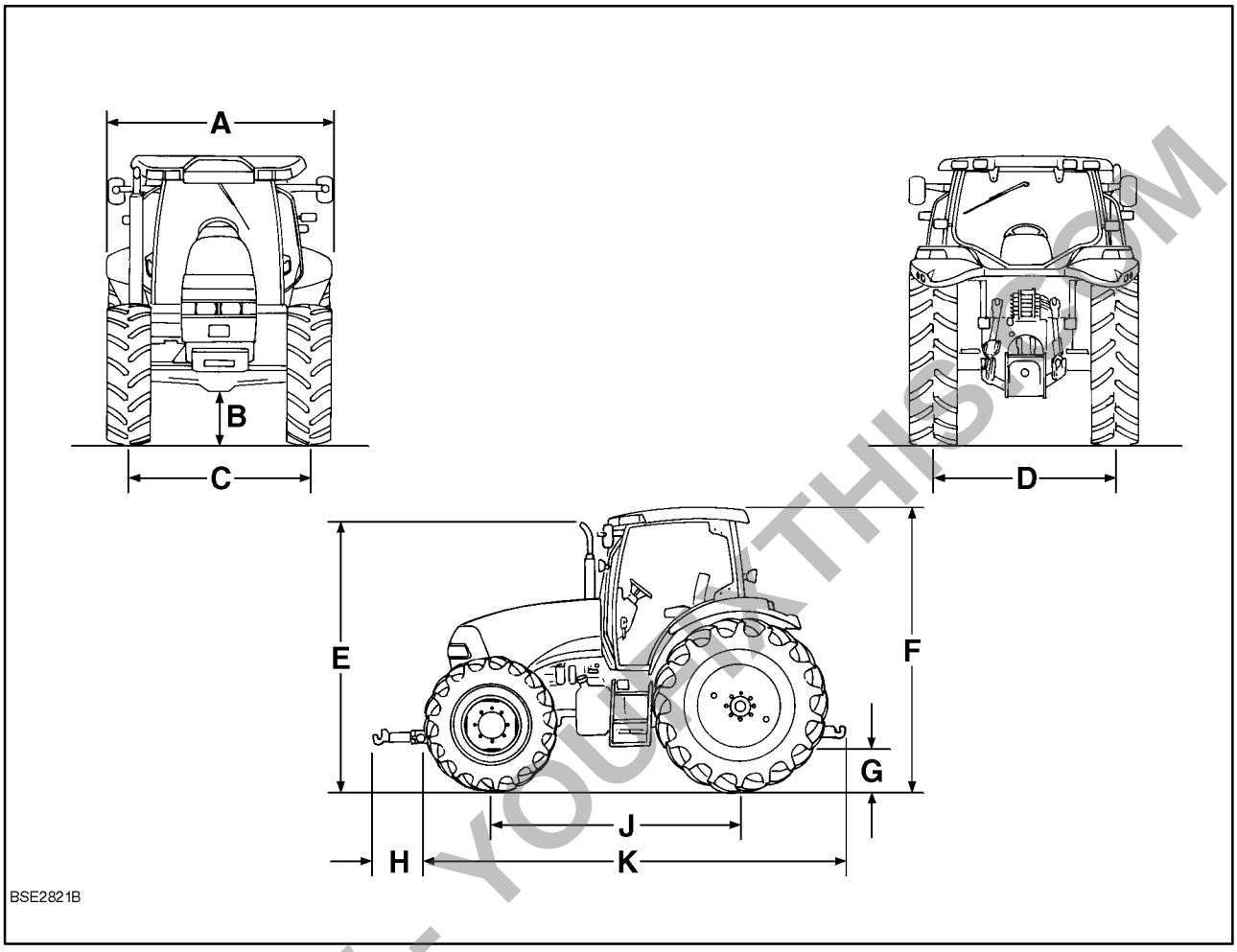
NOTE: *When operating remote cylinders, the rear axle oil level will be affected. When topping up the rear axle to accommodate the oil requirement of remote cylinders, no more than 20 litres (5.28 U.S. gallons) should be added to bring the oil level up to the upper mark on the dipstick when all rams are fully extended.*

Alternatively, remote cylinders with an oil capacity of up to 18 litres (4.75 U.S. gallons) may be connected to the tractor hydraulic system without adding oil, provided the tractor is being operated on level ground.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL DIMENSIONS **MXU100 and MXU110,**



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:*

		MXU100 and MXU110	
		2WD	**4WD**
The following dimensions are based on tractors with tyre sizes shown:	Front	7.50 x 16	14.9 R24
	Rear	16.9 R38	16.9 R38
A. Width across fenders			
Standard fenders	mm	2170	2170
	in	85.4	85.4
Extended fenders	mm	2550	2550
	in	100.3	100.3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MINIMUM HARDWARE TIGHTENING TORQUES

IN FOOT–POUNDS (NEWTON METERS) FOR NORMAL ASSEMBLY APPLICATIONS

INCH HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 2		SAE GRADE 5		SAE GRADE 8		LOCKNUTS	
	UNPLATED or PLATED SILVER	PLATED w/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED w/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED w/ZnCr GOLD	GR.B w/GR5 BOLT	GR.C w/GR8 BOLT
1/4	55* (6.2)	72* (8.1)	86* (9.7)	112* (13)	121* (14)	157* (18)	61* (6.9)	86* (9.8)
5/16	115* (13)	149* (17)	178* (20)	229* (26)	250* (28)	324* (37)	125* (14)	176* (20)
3/8	17 (23)	22 (30)	26 (35)	34 (46)	37 (50)	48 (65)	19 (26)	26 (35)
7/16	27 (37)	35 (47)	42 (57)	54 (73)	59 (80)	77 (104)	30 (41)	42 (57)
1/2	42 (57)	54 (73)	64 (87)	83 (113)	91 (123)	117 (159)	45 (61)	64 (88)
9/16	60 (81)	77 (104)	92 (125)	120 (163)	130 (176)	169 (229)	65 (88)	92 (125)
5/8	83 (112)	107 (145)	128 (174)	165 (224)	180 (244)	233 (316)	90 (122)	127 (172)
3/4	146 (198)	189 (256)	226 (306)	293 (397)	319 (432)	413 (560)	160 (217)	226 (305)
7/8	142 (193)	183 (248)	365 (495)	473 (641)	515 (698)	667 (904)	258 (350)	364 (494)
1.0	213 (289)	275 (373)	547 (742)	708 (960)	773 (1048)	1000 (1356)	386 (523)	545 (739)

NOTE: Torque values shown with ***** are inch pounds.

IDENTIFICATION
CAP SCREWS AND CARRIAGE BOLTS



SAE GRADE 2 | **SAE GRADE 5** | **SAE GRADE 8**

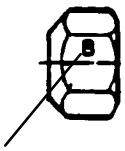
REGULAR NUTS | **SAE GRADE 5 HEX NUTS** | **SAE GRADE 8 NUTS**

LOCKNUTS



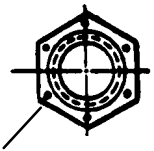
GRADE IDENTIFICATION

GRADE A NO NOTCHES
GRADE B ONE CIRCUMFRETIAL NOTCH
GRADE C TWO CIRCUMFRENTIAL NOTCHES



GRADE IDENTIFICATION

GRADE A NO MARK
GRADE B LETTER B
GRADE C LETTER C



GRADE IDENTIFICATION

GRADE A NO MARKS
GRADE B THREE MARKS
GRADE C SIX MARKS

MARKS NEED NOT BE LOCATED AT CORNERS

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SECTION 10

INDEX

A

Accessories, 7–1
- 40 amp socket, 7–3
- Adaptor cable, 4–pin to 3–pin, 7–3
- Auxiliary headlights, 7–4
- Battery isolator switch, 7–4
- Coolant immersion heater, 7–2
- Loader frame and joystick, 7–5
- Rotating beacon, 7–2
- Transmission oil heater, 7–3

Additional remote hydraulic services, 3–82

Adjustable air vents, 2–14

Air conditioner control, 2–14

Air operated trailer brakes, 3–110, 3–113
- Brake bias control, 3–114
- Dual line system, 3–112
- Operation, 3–111
- Single line system, 3–112

Airborne noise emission, 1–17

Audible alarms, 2–36

Automatic engine shutdown, 2–32

Automatic linkage stabilisers, 3–94

Auxiliary air supply, 3–113

B

Ballasting and tyres, 3–130

Beacon power socket, 2–17

Before operating the tractor, 2–1, 3–1

Boosting the battery, 3–4
- With jump leads, 3–4
- With remote jump terminals, 3–5

C

Cab air filters, 2–12

Cab air recirculation, 2–12

Cab and platform controls, 2–2

Cab introduction, 2–7
- External door handle, 2–7
- Interior door handle, 2–8

Cast iron weights, 3–134

Centre display (LCD), 2–40
- 3–Point hitch position, 2–41
- Power take off speed, 2–41
- Rear wheel slip, 2–40

Cigarette/cigar lighter, 2–16

Cleaning the tractor, 1–1, 2–22
- Cleaning the exterior, 2–23
- Cleaning the interior, 2–22
- Seat and seat belts, 2–27

Clutch pedal, 2–28, 2–82

Console light, 2–11

Controls, instruments and operation, 2–1

Coolant temperature guage, 2–35

D

Differential lock operation, 2–94

Digital clock, 2–39

Dot matrix display, 2–41
- Area accumulator, 2–54
- Area per hour forecaster, 2–53
- Error codes, 2–42
- Explanation of symbols, 2–44
- Non active warnings, 2–42
- Odometer (distance record), 2–53

Drawbars and towing attachments, 3–96
- Automatic pick–up hitch, 3–106
- Safety chain, 3–100
- Slider frame tow hitch, 3–101
  - Non–swivelling type, 3–102
  - With fixed tow pin (piton), 3–105
  - With swivelling tow pin, 3–103
- Swinging drawbars, 3–96
  - Roller type, 3–99
  - Sliding type, 3–97

Driving the tractor, 1–7

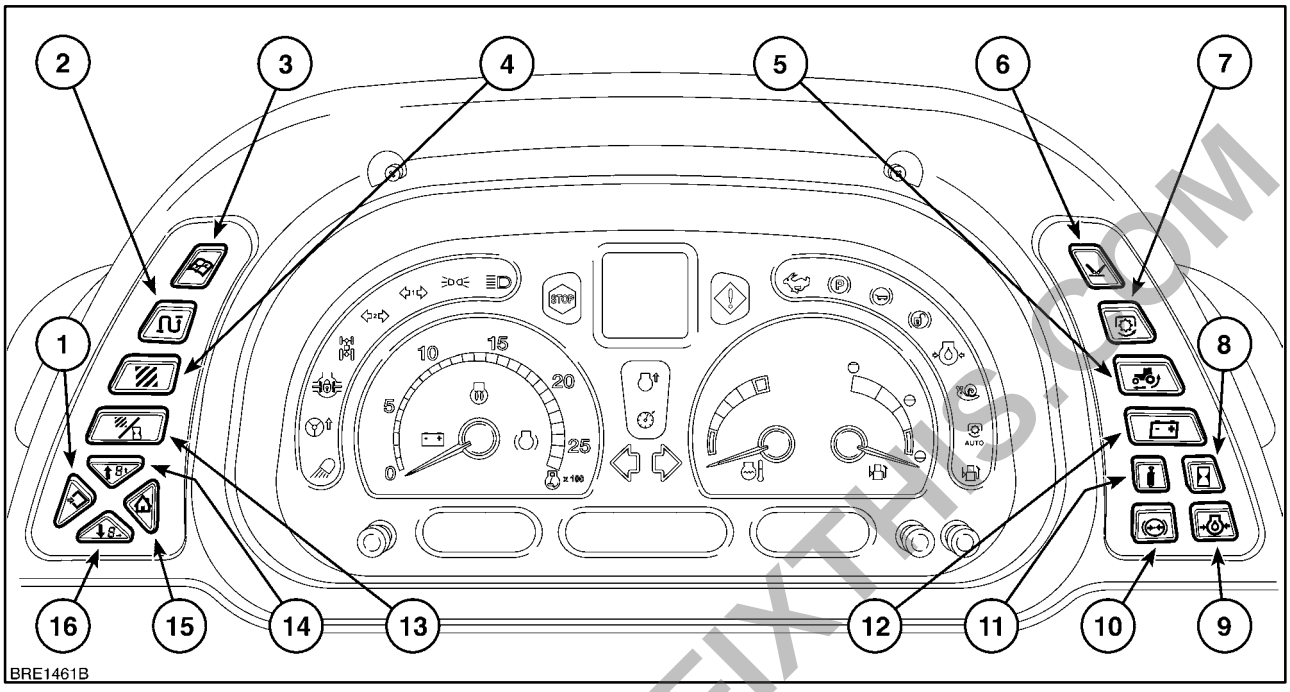
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

**ENHANCED KEYPAD and
PERFORMANCE MONITOR (continued)**



87

8. Hourmeter (D). Touch the key to view total number of hours that the tractor has operated. The hours recorded should be used as a guide to the service intervals for the tractor.

9. Engine Oil Pressure (D). This key will display the engine oil pressure bargraph.

10. Trailer Brake Air Pressure (D). Depress to display the trailer brake air pressure bargraph.

11. Remote Valve Operation (D). A bargraph in the display will show the flow rate through each valve as a percentage (%), the direction of cylinder movement (extend or retract) and the number of the valve selected. (See Electronic Remote Control Valves in Section 3).

12. Battery Voltage (D). With the engine running, touch the key to display the battery symbol together with a digital display of the battery voltage.

13. Area Per Hour Forecaster (D). Touch this key and 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.

NOTE: *If the radar option is not installed, area per hour calculations are based on axle speed and are subject to inaccuracies caused by any wheel slip that may occur.*

14. Menu Scroll Up or Digit Value (D). Depress this key repeatedly to scroll upwards through the menu or change the value of a number.

15. Exit/Cancel (D). Use this key to Exit or cancel set–up and programming modes.

16. Menu Scroll Down or Digit Select (D). Depress this key to scroll downwards through the menu or select an alternative digit in the Dot Matrix Display.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

FRONT P.T.O. AND HYDRAULIC POWER LIFT (where fitted)

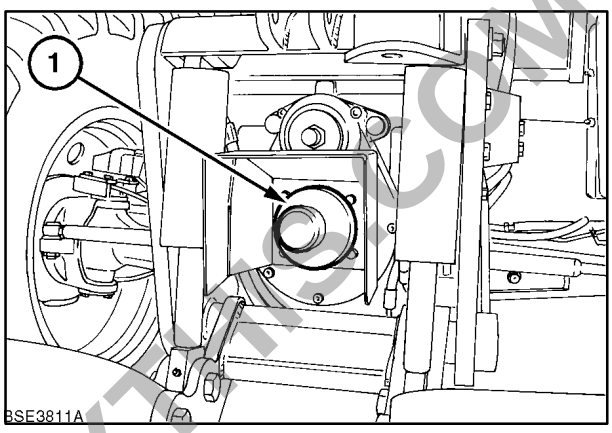
Tractors with four wheel drive may be equipped with an engine-driven P.T.O. and front hydraulic lift. These features are available as a factory installed option or dealer installed accessory.

FRONT P.T.O.

The front power take–off (P.T.O.) transfers engine power directly to front-mounted equipment via a 6 spline shaft. The P.T.O. shaft rotates anti-clockwise (as viewed from the front).

NOTE: *A 21 spline shaft is available as a dealer installed accessory.*

A plastic cap (1) is provided over the P.T.O. shaft. Pull the cap to remove.

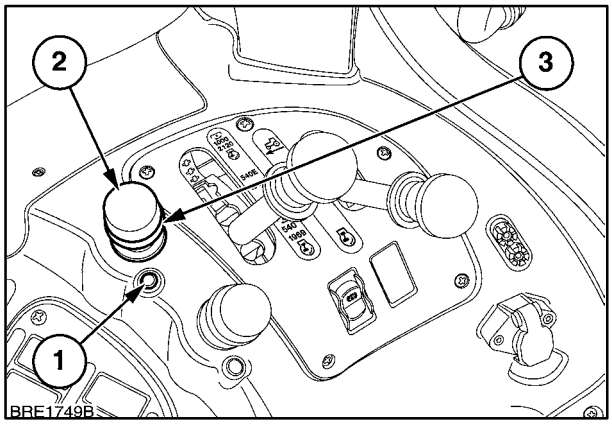


50

NOTE: *With the engine stopped, the P.T.O. brake is released and the shaft may be turned by hand to aid implement shaft alignment.*

The front P.T.O. is electro–hydraulically operated and is activated by a selector knob on the right-hand console, similar to the rear P.T.O.

With the engine running at 1000 rev/min. or less, press the knob (2) and lift the collar (3) and knob up to engage the P.T.O. The knob will remain up while the P.T.O. is engaged and the adjacent warning light (1) will be illuminated. Open the throttle to increase engine speed to 2120 rev/min and provide a P.T.O. shaft speed of 1000 rev/min. To disengage the P.T.O., press the P.T.O. selector knob (2), down.



51

NOTE: *If the engine is stopped, the P.T.O. will not operate when the engine is restarted until the P.T.O. knob is reset. Return the selector knob manually to the 'off' position (by pressing the knob down) then re-engage the P.T.O., as previously described.*

⚠ DANGER ⚠

To avoid inadvertent movement of the implement, disengage the P.T.O. after each use.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

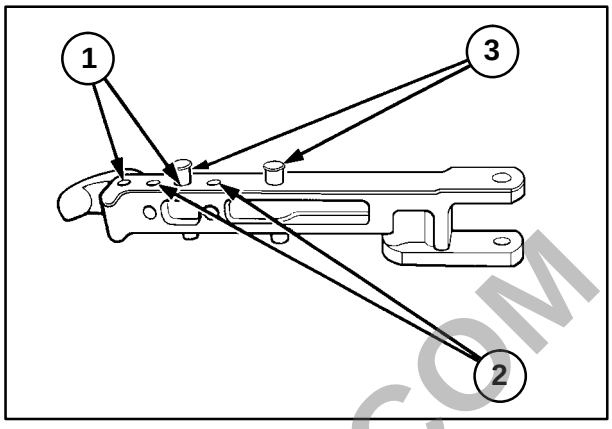
With reference to Figure 184, to change from the hitch hook mode to drawbar, lower the pick–up hitch, extract the two securing pins (1) and (2) and withdraw the combined hitch hook/drawbar assembly (4).

Re-install the assembly, hook first, with the hook on its side and secure with the pins. Two additional holes (5) Figure 184, are provided in the hanger for the rear securing pin (2) so the drawbar may be offset to the left or right of the centre line.

IMPORTANT: *Never raise or lower the pick–up hitch when in the drawbar mode with a trailer attached.*

The drawbar (Figure 186) may be inverted to vary the height of the drawbar/implement hitch point.

There are five holes in the drawbar. By inserting the two securing pins in the appropriate pair of holes (1), (2) or (3), a choice of implement/drawbar hitch points relative to the end of the P.T.O. shaft may be achieved. See Figure 186 and the following table for hitch point position and maximum permitted static downward load on the drawbar:



186

Hole (see Fig. 186)	P.T.O Shaft to Drawbar Hitch Point	Maximum Static Downward Load
Drawbar clevis uppermost		
1	406 mm (16 in.)	1500 kg (3300 lb.)
2	356 mm (14 in.)	1650 kg (3630 lb.)
3	256 mm (10 in.)	2400 kg (5280 lb.)
Drawbar clevis underneath		
1	406 mm (16 in.)	1500 kg (3300 lb.)
2	356 mm (14 in.)	1650 kg (3630 lb.)
3	256 mm (10 in.)	2180 kg (4800 lb.)

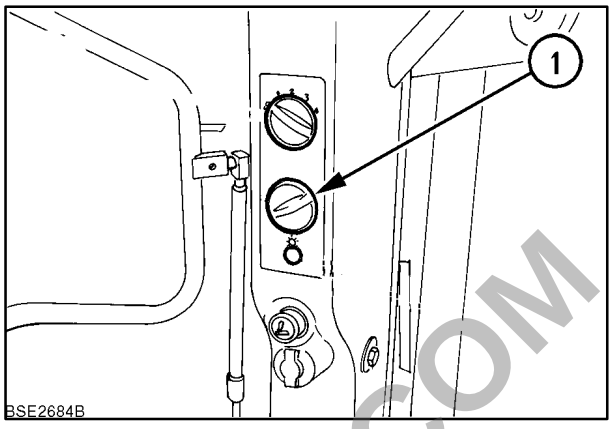
When towing equipment exerting high static downward forces, such as two-wheeled trailers, etc., always use the close-coupled drawbar position (the pair of holes 3 in Figure 186). Alternatively, change to the hitch hook mode.

IMPORTANT: *When supporting equipment on the drawbar or pick-up hitch ensure that the total weight on the rear axle does not exceed the maximum static downward load or the rear tyre load capacity, whichever is the lower (See Rear Tyre Pressures and Loads at the end of Section 3).*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

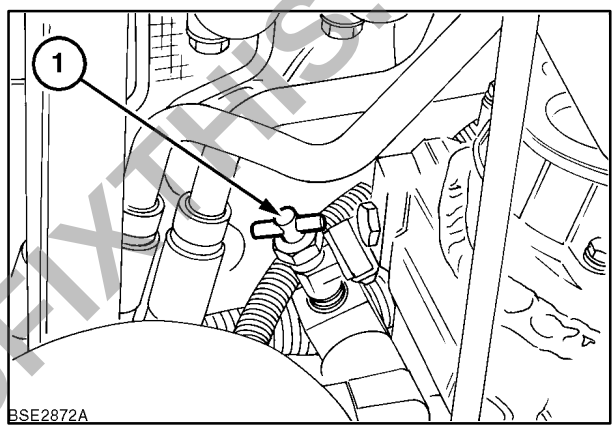
1. Turn the heater control knob to the maximum heat position (fully clockwise).



101

2. Check that the heater shutoff valve is open. This valve is on the rear, right hand side of the engine cylinder head.

3. Disconnect the radiator lower hose and drain all the coolant into a suitable container. Dispose of the coolant properly.



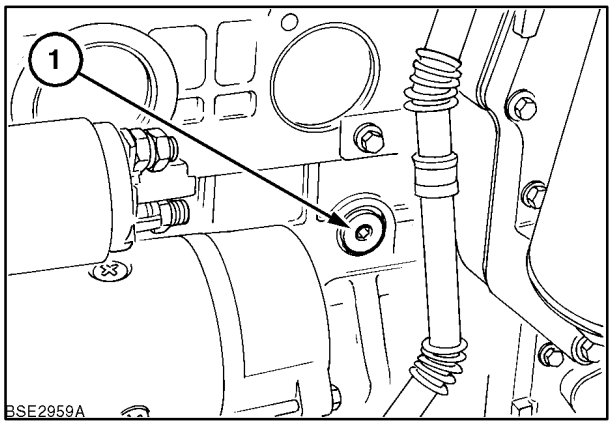
102

4. Remove the coolant drain plug (1) from the left hand rear of the engine block. Drain all the coolant into a suitable container. Dispose of the coolant properly.

5. To increase the drainage rate, remove the radiator cap and recovery tank cap.

6. Flush the system with a commercial cooling system cleaner. Follow the instructions supplied with the cleaner. Drain the cleaner and let the engine cool.

IMPORTANT: *Never put cold coolant in a hot engine. The difference in temperature could cause the the block or head to crack.*



103

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 390 pages

The full manual includes:

- All 390 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case IH MXU100, MXU110, MXU115, MXU125, MXU135, Maxxum Tractors Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual