LBX332, LBX422, LBX432 Balers

From Serial No 4480

Operator's Manual

87611229
(87541636)

CASE IH

Order the manual at mid-west-tech.com >

Table of Contents

SECTION 1 - GENERAL INFORMATION AND SAFETY

Intended use 1-1
Product identification 1-1
Airborne noise emission 1-2
Electromagnetic compatibility (EMC) 1-2
Vibration level information 1-3
Legal obligations 1-3
Safety requirements for fluid power systems and components - hydraulics (European standard PR EM 982) 1-3
Precautionary statements 1-3
Personal safety 1-3
Machine safety 1-3
Safety precautions 1-4
Farm accidents can be prevented with your help 1-4
General recommendations 1-4
Electrical power lines 1-4
Danger of death by electrocution! 1-4
Operating the baler 1-5
Transporting the baler 1-5
Field operation 1-6
Machine maintenance 1-7
Crop cutting 1-8
Wheels and Tyres 1-8
Angle of operation 1-8
Safety decals 1-8
European units only 1-9
North America units only 1-17
Needles/knotter safety lock 1-21
Access to machine components 1-22
Safety guards 1-22
Easy Lock (N/America only) 1-23
Side- and the flywheel access door 1-23
Bale chamber inspection door 1-23
Protective devices 1-25
Signal plates 1-25
Wheel chock 1-25
Toolboxes 1-25
Small 1-25
Large 1-25
Lifting the baler 1-26

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >

Table of Contents

SECTION 2 - CONTROLS, INSTRUMENTS AND OPERATION

Controls, indicators and gauges 2-1
Flywheel brake 2-1
Jack 2-1
Tractor requirements 2-2
Horsepower requirements 2-2
Tractor drawbar / tow hitch 2-2
Tractor wheel setting 2-3
Power take-off shaft 2-3
Attaching the baler to the tractor 2-4
- Tractor drawbar with pin 2-4
- Tractor drawbar with fixed ball hitch 2-4
- Attachment of the hitch 2-5

PTO shaft phasing 2-6
Adjustable low hitch (standard) 2-6
- Levelling the baler 2-7
- Driveline configuration 2-7
- Position of the mid-ship bearing 2-7

Adjustable high low hitch for standard or packer-cutter units 2-8
- General 2-8
- Levelling the baler 2-9
- Driveline configuration 2-10
- Position of the mid-ship bearing 2-10

Adjustable high/low hitch for standard or packer-cutter units (high position) 2-11
- General 2-11
- Levelling the baler 2-11
- Driveline configuration 2-12
- Position of the mid-ship bearing 2-12
- General 2-13
- Levelling the baler 2-14
- Driveline configuration 2-15
- Position of the mid-ship bearing 2-15

Adjustable high/low hitch for LBX422, LBX432 rotor-cutter units (high position shown) 2-16
- General 2-16
- Levelling the baler 2-16
- Driveline configuration 2-17
- Position of the mid-ship bearing 2-17

Attachment of the PTO shaft 2-18
Safety chain / safety cable (not for France) 2-19
Braking systems fail safe brake control (France only) 2-20
Tractor hydraulic brake connections (if fitted*) 2-20
Tractor pneumatic brake connections (if fitted on the baler*) 2-21
Tractor hydraulic connections 2-23
Tractor electrical system 2-25
- Road lights: Except North America 2-25
- Road lights: North America only 2-25

Baler electrical system 2-26
- Road lights 2-26
- Side lights (if fitted) 2-26
- Working light (Optional) 2-26
- Revolving flashlight (where fitted and subject to local legislation) 2-26
- Electric accessories output 2-27
- 12V DC sockets 2-27

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >

Table of Contents

Monitor installation 2-28
Monitor 2-29
Switching the monitor on and off 2-30
Monitor display 2-31
1. Menu bar 2-31
2. Operation and information page 2-32
3. Indicator bar 2-32
Service interval icon 2-34
4. Status box 2-34
5. Date and Time 2-34
Monitor operation 2-35
Start-up mode 2-35
Operation mode 2-36
Load indicator 2-36
Capacity indicator 2-37
Main page with bale length electronic trip (Optional) 2-37
Monitor messages 2-38
1. Operational messages 2-39
2. Warning messages 2-40
3. Stop (alarm) messages 2-44
Pick-up cut out Auto Stop function (optional on Rotor-Cutter balers only) 2-48
4. Error messages 2-49
Menu bar functions 2-50
Memory Page 2-50
Easy clear function of Job name 2-52
Operation and information page 2-53
Toggle key to switch the operating lights on/off 2-53
Toggle key to switch the flashing light on/off 2-53
Toggle key to switch the knotter fans on/off 2-54
Toggle key to switch between the automatic and manual bale density control system 2-54
Service mode > Screen set-up 2-54
Machine settings 2-55
Service mode > Machine set-up 2-55
How to configure Accessory 1 2-56
How to configure Accessory 2 2-56
How to configure operating lights 2-57
How to configure flashing light 2-57
How to configure the bale chute type 2-58
Field settings 2-58
How to configure the Moisture sensor (Optional) 2-59
How to configure the Bale length settings (Optional) 2-59
How to configure the Alternator (Optional) 2-60
Listed below are items that can not be changed by the Operator 2-61
Baler type 2-61
Cutter type 2-61
Serial number 2-61
Monitor software 2-61
Controller software 2-61
Software compliancy 2-61
Operating hours 2-61
Total balecount 2-61

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >

SECTION 4 - LUBRICATION AND MAINTENANCE

LUBRICATION

GENERAL INFORMATION

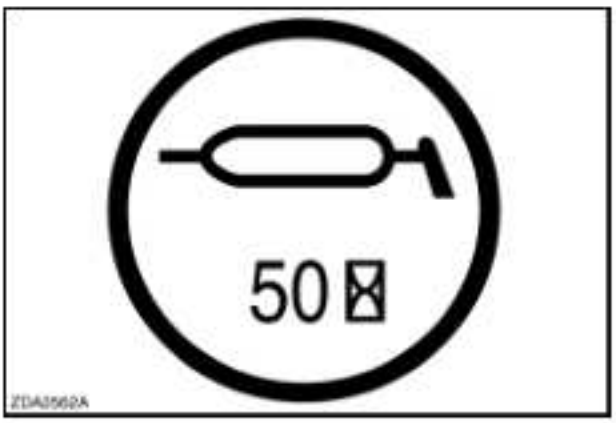
Your baler is designed to require a minimum of lubrication. However, regular lubrication is the best insurance against delays and repairs and greatly increases the life of the machine.

All gearboxes and reservoirs should be checked for leakage daily.

Use only top grade lubricants stored in clean vessels. Recommended lubricants and amounts are summarised at the back of this manual.

Before greasing always wipe any dirt from the grease zerks and then apply a good grade of grease. Use AKCELA™ Multi purpose grease classified under NLGI Class 2. Excess grease should be wiped off.

All grease zerks on the machine are indicated with a grease decal on which the time interval is mentioned.



1

⚠ CAUTION ⚠

To lubricate the baler manually:
Always disengage the tractor PTO drive, stop the tractor engine, and apply the handbrake.
Remove the tractor ignition key before leaving the cab to lubricate the baler.
Turn the power off on control instruments in the tractor affecting the baler operation, to prevent accidental tripping of any of the stuffer or knotting mechanisms.
Apply the flywheel brake and engage the knotter safety lock.
Whenever laying under the baler is needed to carry out any kind of maintenance, support all axles on both sides to avoid getting stuck in case a tyre deflates.

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >

CONCERN	POSSIBLE CAUSE	REMEDY
Stuffer light not functioning (where fitted).	Baler performance monitor not switched on.	Switch on baler performance monitor.
	Operating lights not switched on in baler performance monitor.	Switch on operating lights.
	Fuse F311 blown	Check all wiring looms and connections for shorted circuits and install a new fuse.
	Baler controller not functioning.	Switch the override switch into "override" and fit fuse F311 in the "override" fuse bank. Note that in this case the operating lights are no longer controlled from the baler performance monitor.
	Relay K3 failed.	Install a new relay or fit fuse F311 in the "override" fuse bank. Note that in this case the operating lights are no longer controlled from the baler performance monitor.
Running light not functioning (where fitted).	Baler performance monitor not switched on.	Switch on baler performance monitor.
	Operating lights not switched on in baler performance monitor.	Switch on operating lights.
	Fuse F121 blown	Check all wiring looms and connections for shorted circuits and install a new fuse.
	Baler controller not functioning.	Switch the override switch into "override" and fit fuse F121 in the "override" fuse bank. Note that in this case the operating lights are no longer controlled from the baler performance monitor.
	Relay K1 failed.	Install a new relay or fit fuse F121 in the "override" fuse bank. Note that in this case the operating lights are no longer controlled from the baler performance monitor.

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >

4 KNOTTER BALERS	LBX322 Standard	LBX322 Packer-Cutter	LBX322 Rotor-Cutter	LBX332 Standard	LBX332 Packer-Cutter	LBX332 Rotor-Cutter
Centering auger direction	undershot		overshot	undershot		overshot
Centering auger speed	233 rpm	231 rpm	338 rpm	233 rpm	231 rpm	338 rpm
Windguard	Plate type. Central, single height adjustment					
FEEDER						
Packer / Rotor	Packer: 2 forks, 6 single tines	Packer: 3 forks, 6 double tines	Rotor: width 972 mm (38 1/4") W Pattern	Packer: 2 forks, 6 single tines	Packer: 3 forks, 6 double tines	Rotor: width 972 mm (38 1/4") W Pattern
Drive	Chain NO. 80	Chain NO. 100	Chain NO. 120	Chain NO. 80	Chain NO. 100	Chain NO. 120
Packer / Rotor rotation speed	168 rpm	166 rpm	86 rpm	168 rpm	166 rpm	86 rpm
Protection	Slip clutch pre-set at 2100 Nm (1549 ft.lbs) (not adjustable)	Slip clutch pre-set at 4000 Nm (2950 ft.lbs) (not adjustable)	Cut-out clutch pre-set at 6500 Nm (4795 ft.lbs) (not adjustable)	Slip clutch pre-set at 2100 Nm (1549 ft.lbs) (not adjustable)	Slip clutch pre-set at 4000 Nm (2950 ft.lbs) (not adjustable)	Cut-out clutch pre-set at 6500 Nm (4795 ft.lbs) (not adjustable)
PRE-COMPRESSION						
Charge chamber	Volume: 0.25 m^3 (8,83 $feet^3$)	Volume: 0.25 m^3 (8,83 $feet^3$) + Anti-friction floor	Volume: 0.25 m^3 (8,83 $feet^3$) + Anti-friction floor	Volume: 0.25 m^3 (8,83 $feet^3$)	Volume: 0.25 m^3 (8,83 $feet^3$) + Anti-friction floor	Volume: 0.25 m^3 (8,83 $feet^3$) + Anti-friction floor
Windrow size compensation	Automatic charge sensor engaged stuffer clutch Stuffer trip sensitivity lever					
Stuffer	Fork-type with 4 tines	Fork-type with 6 tines	Fork-type with 4 tines	Fork-type with 4 tines	Fork-type with 6 tines	Fork-type with 4 tines
Drive	Oil bath gearbox					
Speed	Up to 42 cycles per minute					
Stuffer protection	Shearbolt M10 x 60 (10.9)					
Width	800 mm (31 1/2")					
BALE CHAMBER AND PLUNGER						
Plunger speed	42 strokes/min					
Length of stroke	710 mm (27 15/16")					
Mounting	4 vertical roller bearings running on recessed plunger rail 2 horizontal roller bearings					
Drive	Crank and connecting rod					
Bale chamber dimensions: Width x Height Length	800 mm x 700 mm (31 1/2" x 27 1/2") 2540 mm (100")			800 mm x 870 mm (31 1/2" x 34 1/4") 2540 mm (100")		
Bale density	Electro-hydraulic or hydraulic					
Density adjustment	From tractor seat - Baler performance monitor or manual density valve adjustment					

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876...

Order the manual at mid-west-tech.com >

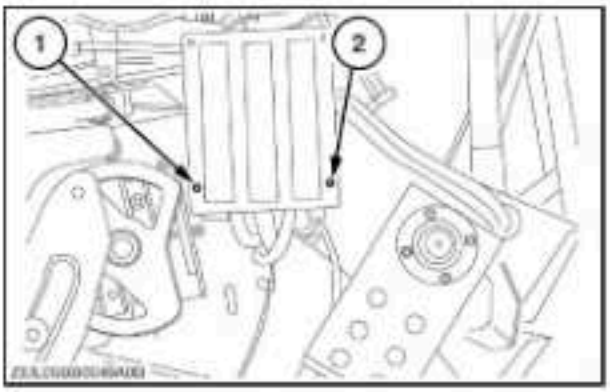
- Refer to the Service mode in the baler performance monitor for possible error messages (refer to section "Field and site operation", paragraph headed "baler performance monitor").

Fuses and relays

Fuse/relay box (1) is located on the right-hand side of the machine.
Except for the road lights, all electrical devices on your baler are power supplied from the fuse/relay box.

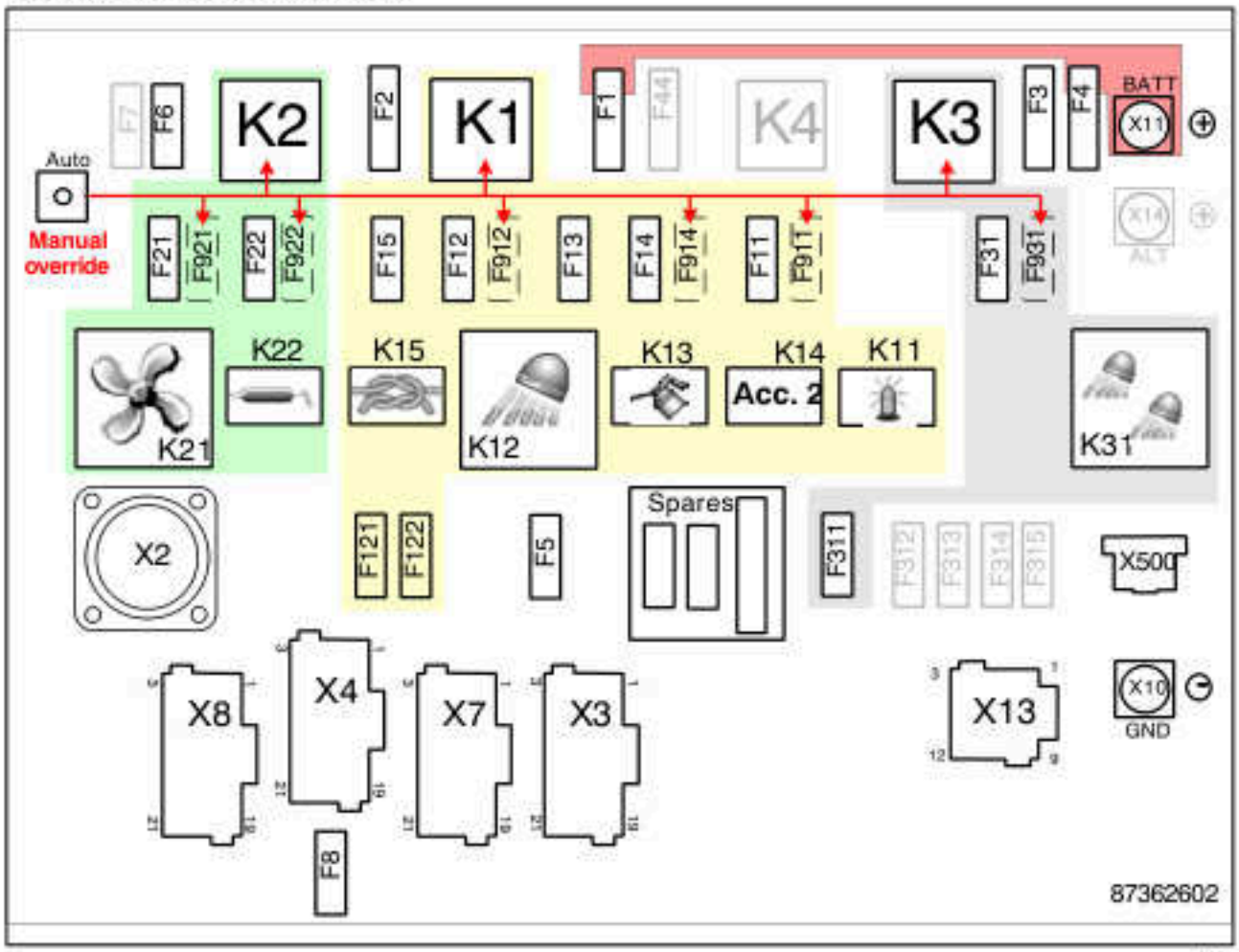
Loosen four screws (2) and remove the cover to gain access to the fuses and relays.

ATTENTION: *Be sure the box is free from dust or dirt before opening. Never operate the baler with the box open. This to avoid dust accumulation and water ingress in the box causing bad connections or shorted circuits.*



175

Shown below is the fuse board decal located on the fuse cover from serial number 4500.



176

MidWestTech | Case LBX332, LBX422, LBX432 Baler Operator's Manual | Publication 876... Order the manual at mid-west-tech.com >