RB455A
Round Baler

OPERATOR'S MANUAL

Part number 84517718
2nd edition English
July 2011
Replaces part number 84259892

CASE IH AGRICULTURE

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the Owner 1-1
Operator's age statement 1-2
Intended use statement 1-2
Ecology and the environment 1-3
Abbreviations and units of measure 1-4
Hardware overview 1-5
Torque - Minimum Tightening Torques for Normal Assembly 1-6
Torque - Standard Torque Data for Hydraulics 1-13
Product Identification Number (PIN) 1-15
Baler orientation 1-16
Informational decals 1-18
Tractor requirements 1-22
Crop preparation 1-24
Bale formation overview 1-25
Baling 1-34
Windguard 1-39
Hydraulic tension system 1-40
Twine wrapping cycle 1-41
Net wrapping cycle 1-42

2 SAFETY INFORMATION

General safety rules 2-1
Safety alert symbol and signal word definition and signal word definitions 2-3
DO NOT OPERATE tag 2-4
Safety signs 2-5
Fire or explosion personal safety 2-23
Fire or explosion prevention 2-24
Safety features 2-26
Power Take-off (PTO) safety booklet 2-34

3 CONTROLS/INSTRUMENTS

OPERATOR'S PANEL

Standard Control System 3-1
Deluxe Control System 3-9

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Attaching to tractor 4-1
Hydraulic hose connections 4-3
Power Take-off (PTO) connection 4-4

STARTING THE UNIT

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >

Starting the unit 4-8
Driveline protection 4-8
Running-in procedure 4-9

PARKING THE UNIT
Unhitch and disconnect from tractor 4-11

5 TRANSPORT OPERATIONS

ROAD TRANSPORT
Conspicuity markings 5-1
Trailing lights test procedure 5-5
Towing the unit 5-9

PREPARING FOR ROAD TRANSPORT
Hitching and connections 5-15

6 WORKING OPERATIONS

GENERAL INFORMATION
Baler operator controls 6-1

PREPARATION FOR FIELD OPERATION
Twine installation 6-3
Net installation 6-9
Pickup - field operation setting 6-11
Pickup flotation 6-12
Pickup gauge wheel adjustment 6-14
Bale density pressure adjustment 6-16
Bale size adjustment 6-18
Twine end wrap location adjustment 6-20
Standard Control System operator's panel operation 6-22
Twine arms calibration 6-25
Duckbill calibration 6-25
Pickup - Unplugging 6-26

7 MAINTENANCE

GENERAL INFORMATION
Overview 7-1
Recommended lubricants 7-4
General maintenance 7-5
Lubrication schedule 7-6
Lubrication points - Every 10 hours or daily 7-8
Lubrication points - Every 50 hours or weekly 7-12
Lubrication points - Every year, 1000 bales, or 70 hours 7-14

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >

Bale formation rollers - Remove debris 7-15
Roller bearings - Inspection for failure 7-16
Wheels and tires 7-17
Roll belt tension 7-19
Belt lacing cable - Replace 7-20
Laced belt - Remove 7-21
Laced belt - Repair 7-22
Laced belt - Install 7-23
Slipping roll belts - Adjust 7-24
Roll belt tracking - Adjust 7-26
Roll belt storage 7-26
Hydraulic hose replacement interval 7-27
Adding oil to the density cylinder system 7-28
Pickup cam follower bearing - Remove 7-29
Pickup cam follower bearing - Install 7-31
Pickup tine - Remove 7-33
Pickup tine - Install 7-33
Pickup flotation 7-34
Windguard stops - Adjust 7-36
Roller chains 7-37
Pickup drive chain 7-41
Floor roll drive chain 7-41
Starter roll drive chain 7-42
Stationary roll drive chain 7-42
Sledge roll drive chain 7-43
Belt drive roll drive chain 7-43
Tailgate nose roll scraper - Adjust 7-44
Twine wrapper knife 7-46
Net wrapper 7-47
Twine/Net wrapper sensors 7-51
Tailgate sensor 7-52
Tailgate latch sensor 7-52
Shearbolts 7-53
Fuses 7-54

STORAGE

End of season parts replacement 7-55
Preparing for storage 7-56
Removing from storage 7-57

TROUBLESHOOTING

Problem / Possible cause / Correction 7-58

8 SPECIFICATIONS

General specifications 8-1

9 ACCESSORIES

Optional equipment 9-1

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

NOTE: *Imperial Units,* ***1/4*** *inch and* ***5/16*** *inch hardware torque specifications are shown as pound-inches (* ***# lb in*** *). Imperial Units,* ***3/8*** *inch through* ***1*** *inch hardware torque specifications are shown as pound-feet (* ***# lb ft*** *).*

INCH NON-FLANGED HARDWARE

NOMINAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UN-PLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UN-PLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4 in	8 N·m (71 lb in)	11 N·m (97 lb in)	12 N·m (106 lb in)	16 N·m (142 lb in)	8.5 N·m (75 lb in)	12.2 N·m (109 lb in)
5/16 in	17 N·m (150 lb in)	23 N·m (204 lb in)	24 N·m (212 lb in)	32 N·m (283 lb in)	17.5 N·m (155 lb in)	25 N·m (220 lb in)
3/8 in	30 N·m (22 lb ft)	40 N·m (30 lb ft)	43 N·m (31 lb ft)	57 N·m (42 lb ft)	31 N·m (23 lb ft)	44 N·m (33 lb ft)
7/16 in	48 N·m (36 lb ft)	65 N·m (48 lb ft)	68 N·m (50 lb ft)	91 N·m (67 lb ft)	50 N·m (37 lb ft)	71 N·m (53 lb ft)
1/2 in	74 N·m (54 lb ft)	98 N·m (73 lb ft)	104 N·m (77 lb ft)	139 N·m (103 lb ft)	76 N·m (56 lb ft)	108 N·m (80 lb ft)
9/16 in	107 N·m (79 lb ft)	142 N·m (105 lb ft)	150 N·m (111 lb ft)	201 N·m (148 lb ft)	111 N·m (82 lb ft)	156 N·m (115 lb ft)
5/8 in	147 N·m (108 lb ft)	196 N·m (145 lb ft)	208 N·m (153 lb ft)	277 N·m (204 lb ft)	153 N·m (113 lb ft)	215 N·m (159 lb ft)
3/4 in	261 N·m (193 lb ft)	348 N·m (257 lb ft)	369 N·m (272 lb ft)	491 N·m (362 lb ft)	271 N·m (200 lb ft)	383 N·m (282 lb ft)
7/8 in	420 N·m (310 lb ft)	561 N·m (413 lb ft)	594 N·m (438 lb ft)	791 N·m (584 lb ft)	437 N·m (323 lb ft)	617 N·m (455 lb ft)
1 in	630 N·m (465 lb ft)	841 N·m (620 lb ft)	890 N·m (656 lb ft)	1187 N·m (875 lb ft)	654 N·m (483 lb ft)	924 N·m (681 lb ft)

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >

Standard Control System Operator's Panel

The Standard Control System operator's panel allows the operator to control or set the following items. They are explained in more detail in Standard Control System Operator's Panel Operation, page **6-22**.

- Manual or Automatic wrapping operation.
- Twine or net wrapping selection - (on standard net/twine equipped balers).
- Amount of wrap.
- Start the wrapping cycle.
- Extend and retract the twine arms
- Extend and retract the net wrapper (on net/twine equipped balers).

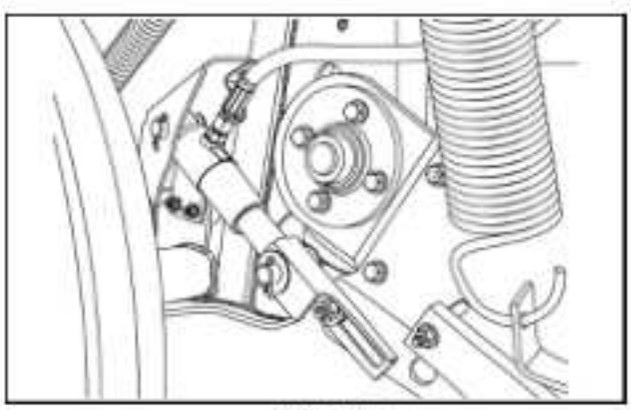
Deluxe Control System Operator's Panel - (On Deluxe Net/Twine Baler)

The Deluxe Control System operator's panel allows the operator to control or set the following items. They are explained in more detail in Deluxe Control System Operator's Manual.

- Manual or Automatic wrapping operation.
- Program setup, enter and/or save values, and perform diagnostics.
- Twine or net wrapping selection.
- Amount of wrap.
- Start the wrapping cycle.
- Extend and retract the twine arms.
- Extend and retract the net wrapper.
- Bale Size
- Bale Shape

Hydraulic Pickup Lift - (Optional Kit)

The operation of the hydraulic pickup lift, if equipped, uses a single-action hydraulic cylinder and a separate tractor hydraulic circuit to raise and lower the pickup assembly. The cylinder hose connects to the remote hydraulic outlet on the tractor. The operation of the cylinder is controlled by the operator from the tractor seat using the tractor hydraulic lever.



MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >

Lubrication points - Every 50 hours or weekly

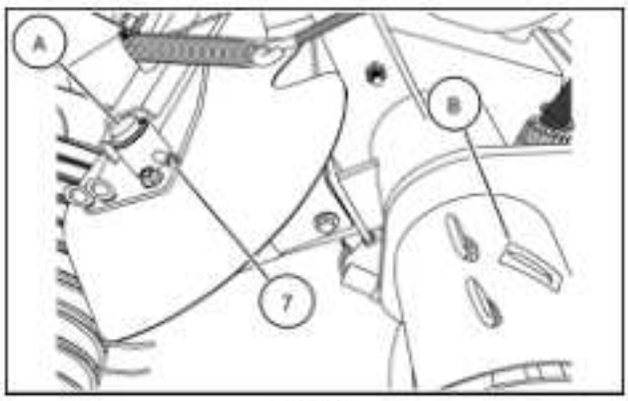
The figures identify all the points that require lubrication according to the lubrication schedule. Each lubrication point identified corresponds with the descriptions in the lubrication schedule. .

Grease Locations

CASE IH AKCELA PREMIUM GREASE EP-2

(7) Twine Arm Pivot

Grease fitting location is on the twine arm pivot at **(A)**. Grease Location Indicator Decal location at **(B)** on the mainframe cross tube and points toward grease fitting on the pivot.

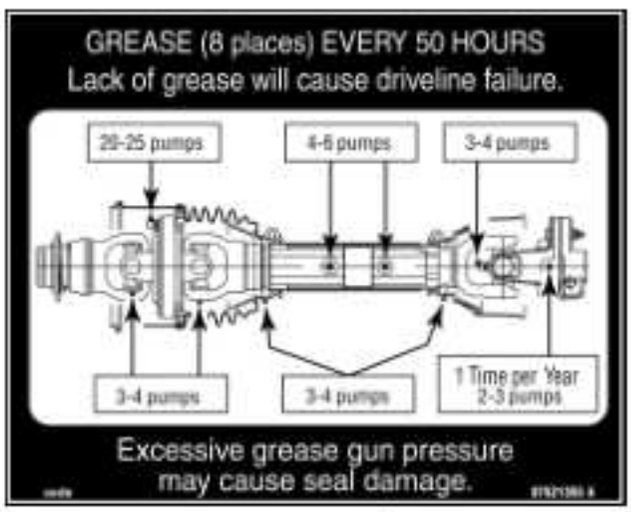


93102100 1

(8) Power Take-off (PTO)

Reference the PTO lubrication decal on the left-hand side of the baler hitch for the nine lubrication points. The decal is shown in Figure **2**.
There are eight 50 hour grease locations forward of the shear hub. Each grease fitting location specifies the number of pumps of grease from a grease gun to properly lubricate that location.

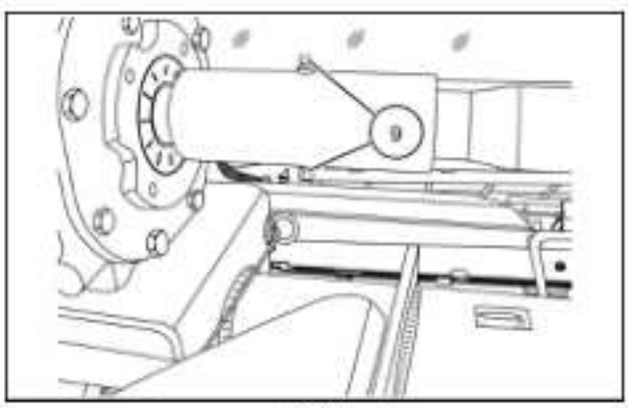
NOTE: *The shear hub grease location indicated on the decal is a yearly lubrication.*



87521385_A 2

(9) Gearbox Output Shaft Coupler (Two Grease Fittings)

There are two grease fittings on the coupler positioned 180° apart.
A Grease Location Indicator Decal is located on top of the left-hand side of the mainframe cross tube in line with the coupler.



93104300 3

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >

(11)

Description:
WARNING
• Moving parts under this cover.
• DO NOT open cover while operating.
Failure to comply could result in death or serious injury.

Quantity: 2 (On Twine Balers)
Quantity: 1 (on Net/Twine Balers

Part #:
86632699 - English
86632803 - French
87479026 - Spanish



24

Location:
Sign **(11)** - Front Shield and Gearbox Input Shaft Shield
Reference: Front View - Twine Baler, Figure **2**

Location:
Sign **(11)** - Front Shield
Reference: Front View - Net/Twine Baler, Figure **3**

(12)

Description:
WARNING
SHIELD IS OPEN
STAND CLEAR
Replace or close shield before operating machine
Failure to comply could result in death or serious injury.

Quantity: 2

Part #:
86626959 - English
86624741 - French
86624653 - Spanish



25

Location:
Sign **(12)** - Left-hand Side Sheet
Reference: Left-hand View - Door Shield Removed - Twine Baler, Figure **6**

Location:
Sign **(12)** - Left-hand Side Sheet
Reference: Left-hand View - Door Shield Removed - Net/Twine Baler, Figure **7**

Location:
Sign **(12)** - Right-hand Side Sheet
Reference: Right-hand View - Door Shield Removed - Twine Baler, Figure **12**

Location:
Sign **(12)** - Right-hand Side Sheet
Reference: Right-hand View - Door Shield Removed - Net/Twine Baler, Figure **13**

MidWestTech | Case RB455A Round Baler Operator's Manual | Publication 84517718 Order the manual at mid-west-tech.com >