Ecolo-Tiger® 530C
Ecolo-Tiger® 730C
Mulch-Till Ripper

PIN JFH0047179 and after

OPERATOR'S MANUAL

Part number 90414165
5th edition English
April 2021
Replaces part number 51647263

CASE IH AGRICULTURE

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | Publication 90414165
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Electro-Magnetic Compatibility (EMC) 1-2
Product Identification Number (PIN) 1-3
Machine orientation 1-4
Machine components 1-5
Official documents 1-6

2 SAFETY INFORMATION

Safety rules 2-1
Safety information 2-2
Safety features 2-8
Ecology and the environment 2-10
Hand signals 2-11
Safety signs 2-12

3 TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Before operating your implement 3-1
Tractor requirements 3-3
Attaching the implement to the tractor 3-4
Hydraulic hose connections 3-8
Transport lighting 3-10

4 WORKING OPERATIONS

OPERATING INSTRUCTIONS

Initial setting 4-1
Transport/maintenance stops 4-3
Operation 4-6
Setting the depth of the points 4-8
Automatic reset adjustment 4-9
Adjust the fore/aft of the implement 4-12
Disk blade depth 4-14
Lead shank operation 4-18
Setting the machine into work position - Hydraulic disk level'r operating guide .. 4-20

5 MAINTENANCE

GENERAL INFORMATION

Maintenance safety 5-1
Consumables 5-3
Torque 5-4
Special bolt torque 5-9
Torque - Standard torque data for hydraulic connections 5-10

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >

Tire pressure 5-17
Removing air from the hydraulic system 5-18

MAINTENANCE CHART
Lubrication and maintenance chart 5-20

LUBRICATION AND ADJUSTMENTS
Grease locations 5-21

After the first 4 hours
Front disk frame u-bolt and disk blade torque 5-22

Every 10 hours or daily
Wheel bolt torque 5-23
Main lift transport 5-25
Main shank pivot 5-25
Disk wing gang hinge 5-25
disk level'r wing hinge 5-26
disk level'r assembly pivot 5-26

Every 50 hours or weekly
Disk frame spring cushion pivot 5-27
Disk frame rockshaft 5-27
Disk frame pivot 5-27
Lead shank pivot 5-28
Auto reset shank pivot 5-28
disk level'r support arm pivot 5-29
disk level'r support screw 5-29

Every 100 hours
Hub bearings 5-30

Every 250 hours or yearly
disk level'r disk assembly 5-31
Cushion disk hub assembly 5-31
Rigid disk hub assembly 5-31

Every 500 hours
Repack 8-bolt wheel hub bearings 5-32
Repack front disk frame hub bearings 5-35
Repack rear disk leveler hub bearings 5-38

STORAGE
Preparing for storage 5-41
Removal from storage 5-42

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >

6 TROUBLESHOOTING

FAULT CODE RESOLUTION

Troubleshooting 6-1
Tillage - Troubleshooting 6-3

7 SPECIFICATIONS

Consumables 7-1
Tractor requirements 7-2
Frame 7-2
Transport size 7-2
Machine weights 7-3
Hydraulics 7-3
Wheels and tires 7-4
Disk blade size 7-5
Shanks and points 7-5
Tillage width 7-5

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >

NOTE: *Operating the implement without stroke control segments on the main lift cylinder rods will lead to excess operating depth of the shanks.*

NOTE: *Larger stroke control segments will raise the implement and allow the shanks to run shallower in the soil. Smaller stroke control segments will lower the implement and allow the shanks to run deeper in the soil.*

1. Verify the tires are inflated to the proper air pressure before making any adjustments to the implement. Refer to "Wheels and tires" on **7-4** for the recommended tire pressure for your particular implement.

   There are two sets of stroke control segments. One set is the same color as the frame and one set is black.

   - The stroke control segment that are the same color as the frame are in **6 mm** (**1/4 in**) widths (**44 mm** (**1-3/4 in**), **57 mm** (**2-1/4 in**), and **70 mm** (**2-3/4 in**).
   - The black stroke control segment are in **13 mm** (**1/2 in**) widths (**38 mm** (**1-1/2 in**), **51 mm** (**2 in**), **64 mm** (**2-1/2 in**), and **76 mm** (**3 in**).
   - For every **13 mm** (**1/2 in**) change in stroke control segment, the depth of the implement will change approximately **38 mm** (**1-1/2 in**).

   To set the depth of the implement:

2. Install the same size stroke control segments over each of the main lift cylinder rods.

   For 5-shank and 7-shank implements equipped with 16.5 x 16.1 transport tires:

   A. Begin with the **70 mm** (**2-3/4 in**) stroke control segment. This size stroke control segment will set the depth of the shanks to approximately **280 mm** (**11 in**) deep.

   B. Run a test pass in the field and adjust the depth as necessary with the stroke control segments.

   For 7-shank implements equipped with VF385/65R22.5 transport tires:

   A. Begin with the **51 mm** (**2 in**) wide stroke control segment. This size stroke control segment will set the depth of the shanks to approximately **280 mm** (**11 in**) deep.

   B. Run a test pass in the field and adjust the depth as necessary with the stroke control segments.

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >

MAINTENANCE CHART

Lubrication and maintenance chart

Maintenance action	Check	Lubricate	Grease	Cleaning	Page no.
LUBRICATION AND ADJUSTMENTS					
Grease locations	x				5-21
Every 10 hours or daily					
Wheel bolt torque		x			5-23
Main lift transport			x		5-25
Main shank pivot			x		5-25
Disk wing gang hinge			x		5-25
disk level'r wing hinge			x		5-26
disk level'r assembly pivot			x		5-26
Every 50 hours or weekly					
Disk frame spring cushion pivot			x		5-27
Disk frame rockshaft			x		5-27
Disk frame pivot			x		5-27
Lead shank pivot			x		5-28
Auto reset shank pivot			x		5-28
disk level'r support arm pivot			x		5-29
disk level'r support screw			x		5-29
Every 100 hours					
Hub bearings	x				5-30
Every 250 hours or yearly					
disk level'r disk assembly			x		5-31
Cushion disk hub assembly			x		5-31
Rigid disk hub assembly			x		5-31
Every 500 hours					
Repack 8-bolt wheel hub bearings				x	5-32
Repack front disk frame hub bearings				x	5-35
Repack rear disk leveler hub bearings				x	5-38

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >

Machine weights

5-shank implement - with leveler	**5261 kg (11600 lb)**
7-shank implement - with leveler	**6893 kg (15200 lb)**

Safety chain

5-shank	**89.9 kN (20200 lb)**
7-shank	**135.2 kN (30400 lb)**

Hydraulics

Lift cylinders	
5-shank main frame	Two **76 x 305 mm (3 x 12 in)**
7-shank main frame	Two **89 x 305 mm (3-1/2 x 12 in)**
Disk lift cylinder	One **76 x 203 mm (3 x 8 in)**
Disk wing frame fold cylinders	
7-shank main frame	Two **64 x 406 mm (2-1/2 x 16 in)**
Leveler wing fold cylinders	
7-shank main frame	Two **76 x 203 mm (3 x 8 in)**

MidWestTech | Case Ecolo Tiger 530C, 730C Mulch-Till Ripper Operator's Manual | P... Order the manual at mid-west-tech.com >