Tiger-Mate® 255
Field Cultivator

PIN YGD082250 and after

OPERATOR'S MANUAL

Part number 90377485
6th edition English
August 2020
Replaces part number 51692855

CASE IH AGRICULTURE

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 90377485
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Electro-Magnetic Compatability (EMC) 1-2
Product Identification Number (PIN) 1-3
Operator's manual storage on the implement 1-4
Machine orientation 1-5
Machine components 1-6

2 SAFETY INFORMATION

Safety rules 2-1
Safety information 2-2
Safety features 2-8
Ecology and the environment 2-12
Hand signals 2-13
Safety signs - Constant level single fold 2-14
Safety signs - Constant level double fold 2-22
Safety signs - Floating hitch 2-31

3 OPERATING INSTRUCTIONS

Commissioning the unit

Before operating 3-1
Attaching the implement to the tractor 3-3
Jack stand 3-8
Hydraulic hose connections - Standard frame control 3-9
Hydraulic hose connections - Electronic frame control 3-11
Hydraulic hose connections for competitor tractors - Electronic frame control 3-15
Transport lighting 3-17

Parking the unit

Disconnecting the implement from the tractor 3-20

4 WORKING OPERATIONS

General information

Standard frame control 4-1
Fore/aft adjustment - Constant level single fold implements 4-1
Leveling the implement side to side - Constant level single fold implements 4-5
Fore/aft adjustment - Constant level double fold implements 4-6
Leveling the implement side to side - Constant level double fold implements 4-10
Depth adjustment - Floating hitch implements 4-12
Hydraulic lift 4-23
Hydraulic transport lock valve 4-26
Transport/maintenance stops 4-27

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >

Single Point Depth Control (SPDC) adjustment 4-28
Bleeding the hydraulic system 4-29
Non-pivoting stabilizer wheel adjustment - Constant level implements 4-32
Pivoting stabilizer wheel adjustment - Constant level implements 4-34
Advanced Conditioning System (ACS) 4-36
2-bar tine ACS adjustment 4-37
3-bar tine ACS with TigerPaw™ Crumbler® adjustment 4-47
3-bar tine ACS with hydraulic TigerPaw™ Crumbler® adjustment 4-58
4-bar tine ACS adjustment 4-66
3-bar spike ACS with TigerPaw™ Crumbler® adjustment 4-70
3-bar spike ACS with hydraulic TigerPaw™ Crumbler® adjustment 4-78
Final check before beginning field work 4-86
AFS Soil Command™ System Override 4-87
Configuration of the implement for system failure 4-87

5 MAINTENANCE

General information
Maintenance safety 5-1
Consumables 5-3
Torque 5-4
Torque - Standard torque data for hydraulic connections 5-9

Maintenance planning
Maintenance chart 5-16

As required maintenance
Lubrication points - Constant level single fold implements 5-17
Lubrication points - Constant level double fold implements 5-18
Lubrication points - Floating hitch double fold implements 5-19
Tire pressure 5-20
Single point depth control (SPDC) 5-21
Wheel retraction switch 5-21
Double fold-narrow transport only 5-21

After the first 10 hours
Frame bolts 5-22
Wheel bolt torque - Constant level single fold implements 5-23
Wheel bolt torque - Constant level double fold implements 5-24
Wheel bolt torque - Floating hitch double fold implements 5-25

Every 50 hours
Turnbuckle assembly – Constant level hitch - Single fold and Double fold implements 5-26
Main frame turnbuckle – Floating hitch 5-27
Wing frame turnbuckle – Floating hitch 5-28
Wing frame depth adjustment linkage – Constant level hitch - Single fold implements 5-29
Inner and outer wing frame depth adjustment linkage – Constant level hitch - Double fold implements 5-29

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >

Inner and outer wing frame depth adjustment linkage – Floating hitch 5-30
Pivoting stabilizer wheel bearing - Constant level hitch 5-31
Non-pivoting stabilizer wheel bearing - Constant level hitch 5-31
Advanced Conditioning System (ACS) trunnion 5-32

Every 100 hours

Mainframe walking tandem pivot 5-33
Mainframe 60-8 transport hub 5-33
Mainframe walking tandem pivot - Constant level single fold 5-34
Mainframe transport hub - Constant level single fold 5-35
Wing frame wheel hub 5-35
Pivoting gauge wheel hub 5-36
Pivoting gauge wheel assembly pivot bushing 5-36

Every 250 hours or yearly

Repack 60-8 mainframe wheel bearings 5-37
Repack 783-6 wheel bearings 5-37
Repack walking tandem pivot bearings 5-38
Repack 710-6 pivoting stabilizer wheel bearings 5-38
Repack 633-4 non-pivoting stabilizer wheel bearings 5-38

Yearly

Hydraulic hoses and cylinders 5-39

Storage

Preparing for storage 5-40
Removing from storage 5-41

6 TROUBLESHOOTING

Symptom(s)

Field performance 6-1
Component breakage 6-5
Rephasing suspension lift cylinders 6-6

7 SPECIFICATIONS

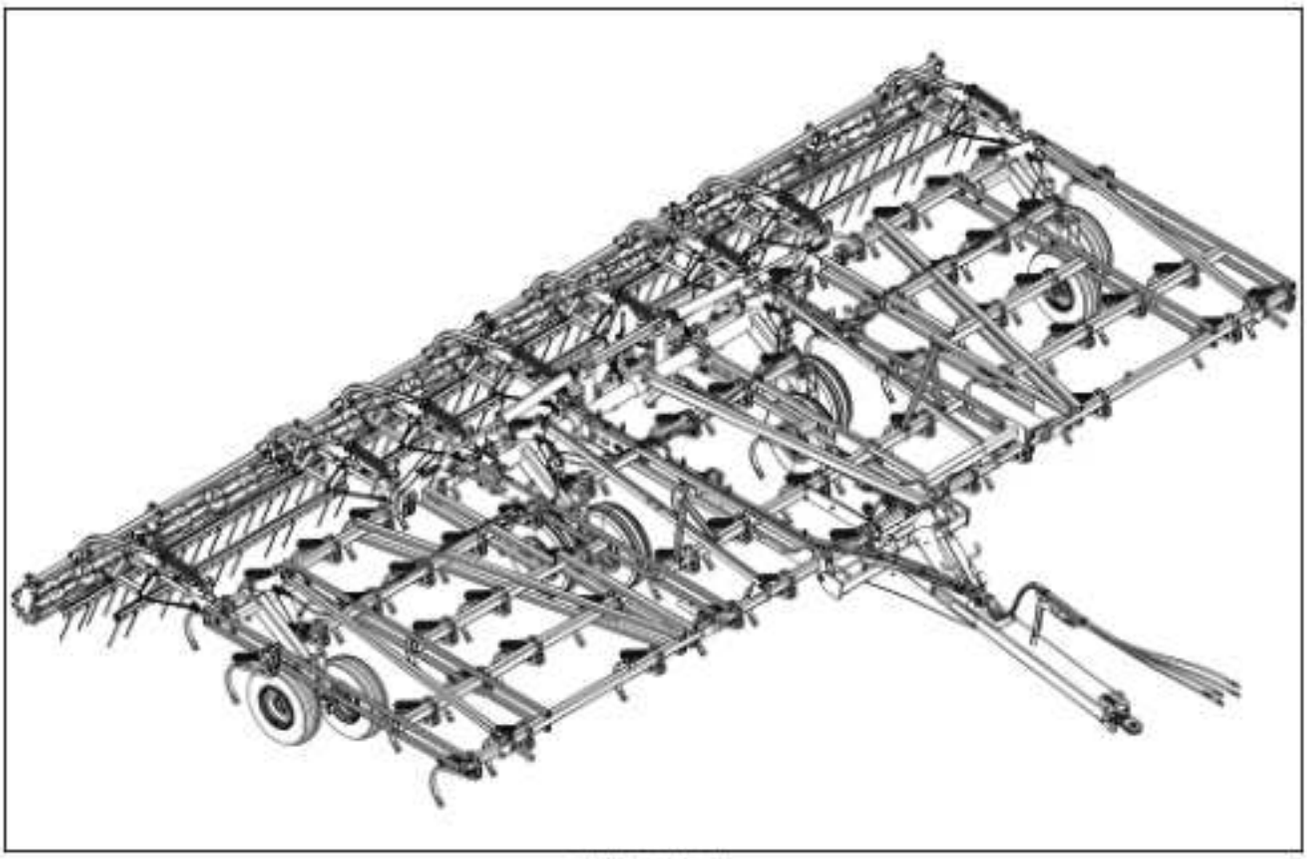
Tractor requirements 7-1
Frame and hitch 7-1
Transport size (without rear harrow) 7-1
Weight - Constant level single fold (without harrow option) 7-2
Weight - Constant level double fold (without harrow option) 7-2
Weight - Floating hitch (without harrow option) 7-2
Hydraulic cylinders - Constant level single fold implements 7-3
Hydraulic cylinders - Constant level double fold implements 7-3
Hydraulic cylinders - Floating hitch implements 7-4
Wheels and tires - Constant level single fold implements 7-5

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >

3 - OPERATING INSTRUCTIONS

Commissioning the unit

Before operating



SAVM297TL001BPA 1

10.7 m (35.2 ft) implement shown

Before operating your field cultivator:

1. Lubricate the field cultivator according to instructions in the "Lubrication and maintenance chart" on **5-16** in this manual.
2. Check all hardware and pins for wear.
3. Torque all fasteners as required. Refer to the specifications in "Torque" starting on **5-4** or "Special bolt torque" on **Special bolt torque** in this manual for the correct torque requirements.
4. Check the routing of all hoses and wiring to prevent damage during operation.
5. Check all pivot points are free of soil, debris, and crop residue to prevent damage before daily operation of the implement.
6. Check tires for correct air pressure. Refer to "Wheels and tires" starting on **7-5** for constant level single fold implements, **7-6** for constant level double fold implements, and **7-8** for floating hitch double fold implements.
7. Check all safety equipment for proper operation.
8. Read and understand all of the operating instructions in this manual.

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >

Maintenance planning

Maintenance chart

Maintenance action	Adjust / Check		Grease / Lubricate		Page no.
As required maintenance					
Tire pressure	x				5-20
Single point depth control (SPDC)	x				5-21
Wheel retraction switch		x			5-21
After the first 10 hours					
Frame bolts	x				5-22
Wheel bolt torque - Constant level single fold implements	x				5-23
Wheel bolt torque - Constant level double fold implements	x				5-24
Wheel bolt torque - Floating hitch double fold implements	x				5-25
Every 50 hours					
Turnbuckle assembly - Constant level hitch - Single fold and Double fold implements			x		5-26
Main frame turnbuckle - Floating hitch			x		5-27
Wing frame turnbuckle - Floating hitch			x		5-28
Wing frame depth adjustment linkage - Constant level hitch - Single fold implements				x	5-29
Inner and outer wing frame depth adjustment linkage - Constant level hitch - Double fold implements				x	5-29
Inner and outer wing frame depth adjustment linkage - Floating hitch				x	5-30
Pivoting stabilizer wheel bearing - Constant level hitch			x		5-31
Non-pivoting stabilizer wheel bearing - Constant level hitch			x		5-31
Advanced Conditioning System (ACS) trunnion			x		5-32
Every 100 hours					
Mainframe walking tandem pivot			x		5-33
Mainframe 60-8 transport hub			x		5-33
Mainframe walking tandem pivot - Constant level single fold			x		5-34
Mainframe transport hub - Constant level single fold			x		5-35
Wing frame wheel hub			x		5-35
Pivoting gauge wheel hub			x		5-36
Pivoting gauge wheel assembly pivot bushing			x		5-36
Every 250 hours or yearly					
Repack 60-8 mainframe wheel bearings				x	5-37
Repack 783-6 wheel bearings				x	5-37
Repack walking tandem pivot bearings				x	5-38
Repack 710-6 pivoting stabilizer wheel bearings				x	5-38
Repack 633-4 non-pivoting stabilizer wheel bearings				x	5-38
Yearly					
Hydraulic hoses and cylinders	x				5-39

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >

Weight - Constant level single fold (without harrow option)

Implement size	Weight
6.8 m (22.2 ft)	3828 kg (8440 lb)
7.7 m (25.5 ft)	3946 kg (8700 lb)
8.7 m (28.7 ft)	4291 kg (9460 lb)
9.7 m (32.0 ft)	4500 kg (9920 lb)
10.7 m (35.2 ft)	4736 kg (10440 lb)

Highway transport chain

Implement size	Capacity
7.6 – 10.7 m (22.2 – 35.2 ft)	89.9 kN (20200 lb)

Weight - Constant level double fold (without harrow option)

Implement size	Weight
11.4 m (37.4 ft)	7133 kg (15725 lb)
12.4 m (40.6 ft)	7189 kg (15850 lb)
14.0 m (46 ft)	7893 kg (17400 lb)
15.7 m (51.5 ft)	8310 kg (18320 lb)
17.0 m (55.8 ft)	8958 kg (19750 lb)
18.3 m (60.1 ft)	9149 kg (20170 lb)

Highway transport chain

Implement size	Capacity
11.4 – 18.3 m (37.4 – 60.1 ft)	135.2 kN (30400 lb)

Weight - Floating hitch (without harrow option)

Implement size	Weight
11.4 m (37.4 ft)	8142 kg (17950 lb)
12.4 m (40.6 ft)	8292 kg (18280 lb)
14.0 m (46 ft)	8623 kg (19010 lb)
15.7 m (51.5 ft)	9067 kg (19990 lb)
17.0 m (55.8 ft)	9734 kg (21460 lb)
18.3 m (60.1 ft)	9916 kg (21860 lb)

Highway transport chain

Implement size	Capacity
11.4 – 18.3 m (37.4 – 60.1 ft)	135.2 kN (30400 lb)

MidWestTech | Case Tiger Mate 255 Field Cultivator Operator's Manual | Publication 9... Order the manual at mid-west-tech.com >