Early Riser® 1240

Pivot-Transport Planter

OPERATOR'S MANUAL

Part number 84576581
5th edition English
June 2012
Replaces part number 84427597

CASE IH AGRICULTURE

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Publication 84576581
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Product identification 1-2
Electro-Magnetic Compatibility (EMC) 1-3
Left and right side of the machine 1-4
Advanced Seed Meter (ASM) planting system 1-5
Overview 1-5
Base configuration 1-6
Advanced Seed Meter (ASM) components 1-7
Machine components 1-8

2 SAFETY INFORMATION

Safety rules and signal word definitions and signal word definitions 2-1
Safety rules 2-2
Ecology and the environment 2-9
Transporting on public roads 2-10
Bulk fill fold-out step 2-11
Transport cylinder safety stops 2-12
Service and storage locks 2-13
Planter latching areas 2-16
Maintenance safety 2-19
Safety signs 2-21

3 TRANSPORT OPERATIONS

ROAD TRANSPORT

Transporting on public roads 3-1
Tractor requirements 3-3
Drawbar connection and adjustment 3-9
Hydraulic connections 3-14
Motor case drain kits 3-27
Planter mounted 22 gpm and 36 gpm Power Take-Off (PTO) pumps 3-35
Tractor mounted 22 gpm Power Take-Off (PTO) pumps 3-44
Drawbar strap orientation 3-46
Electrical connections 3-51

SHIPPING TRANSPORT

Transporting the planter on a flatbed trailer 3-53

4 WORKING OPERATIONS

GENERAL INFORMATION

Planter preparation 4-1
Planter raising and lowering 4-7

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >

Hose carrier folding during planter pivoting 4-9
Planting with hydraulic drive planters..... 4-11
Row unit operation 4-13
Row unit down pressure adjustment 4-17
Covering disk adjustment..... 4-23
Meter unit speed compensator 4-24
Row unit seed hopper removal and installation 4-25
Seed meter field operation 4-27
Singulator and baffle adjustment 4-29
Bulk hopper filling and fan adjustment (if equipped) 4-31
Row unit hopper filling..... 4-33
Vacuum adjustment 4-33
Variable drive: row unit and seed meter drive..... 4-34
Variable drive: planting speed..... 4-35
Check planting results..... 4-36

Marker adjustment and operation

Marker length adjustment 4-37
Marker disk angle adjustment 4-38
Marker extend/retract adjustment 4-39
Marker operation 4-40
Marker transport lock pins..... 4-41
Marker breakaway bolt 4-42
No installed markers - Weight kit..... 4-43

Row unit attachments

Tillage support mounted attachments 4-44

Granular chemical system

Granular chemical components (If equipped) 4-57
Drive clutch control 4-58
Granular chemical hopper..... 4-59
Metering valve operation and adjustment 4-60
Adjusting broadcast coverage rate 4-61
Effects of varying seed rate on chemical rate 4-62
Metering gate calibration 4-65
Spring tooth incorporator 4-66

Liquid fertilizer system

Liquid fertilizer system (if equipped)..... 4-67
Liquid fertilizer system operation 4-73
Orifice/Injector selection..... 4-81
Injector tables..... 4-82
Orifice table..... 4-92
Liquid fertilizer attachments 4-108
In-furrow fertilizer applicators..... 4-114

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >

Planting

Bulk hopper system 4-116
Components 4-116
Bulk fan and bulk fan speed sensor 4-121
Bulk hopper system operation 4-123
Empty bulk hoppers 4-130

Seed meter, vacuum, and bulk hopper settings

Recommended settings chart 4-131
Seed population/spacing chart 4-134
Seed disk RPM 4-135

12/23 and 16/31 split row planters

Overview 4-137

24 row 20 planters

Overview 4-151

Crop changeover

Changeover 4-153

5 MAINTENANCE

GENERAL INFORMATION

Maintenance safety 5-1

MAINTENANCE CHART

Maintenance chart 5-3

Every 8 hours

Planter mounted Power Take-Off (PTO) drive shaft lubrication (if equipped) 5-6

Every 10 hours or daily

Drive chain lubrication 5-6
Planter latching areas 5-8
Lighting operation 5-9
Wheel torque 5-9
Wheel rock guards 5-9
Gearbox for planter mounted Power Take-Off (PTO) driveline (if equipped) 5-10
Wing drive couplers 5-10
Seed hose couplers 5-10
Planter lift lubrication - Center toolbar 5-13
Liquid fertilizer pump air pressure (if equipped) 5-14
Fertilizer attachments - Double disk openers 5-15

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >

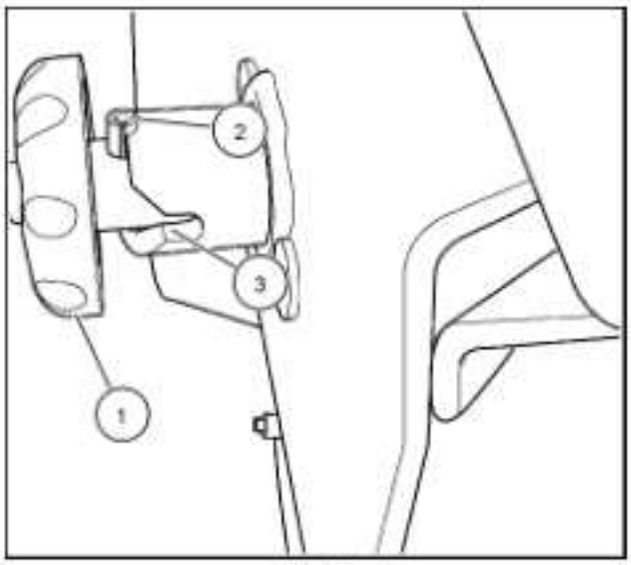
Drive clutch control

The drive clutch control for the chemical metering valve mechanism is located on the left side of the frame. To reduce wear on the metering mechanism, always disengage the drive clutch when chemicals are not being applied.

To disengage the drive clutch:

1. Pull the knob **(1)** out and rotate it one-quarter turn to disengage the pin **(2)** from the slot **(3)**.

NOTE: *The drive clutch MUST be disengaged to remove the hopper from the frame.*



RD02N320 1

To engage the drive clutch:

1. Rotate the knob until the pin aligns with the slot then push the knob straight in.

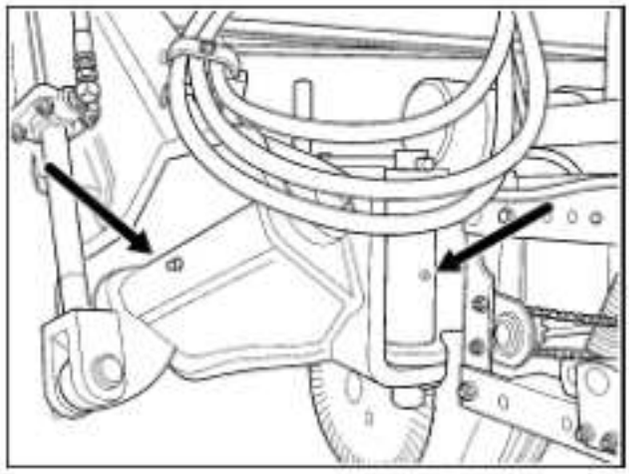


RD02N331 2

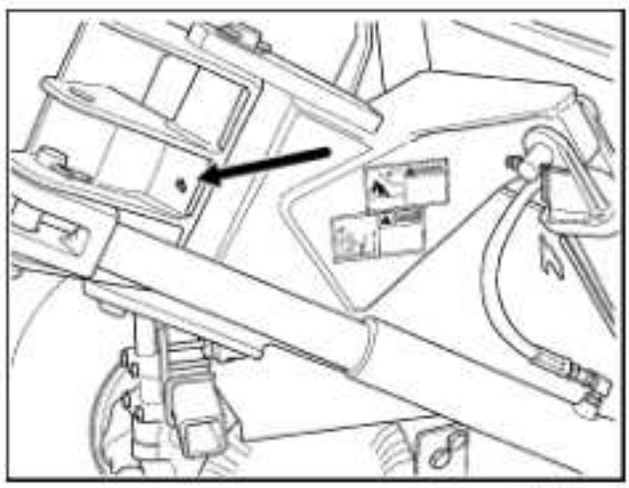
MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >

Marker lubrication (if equipped)

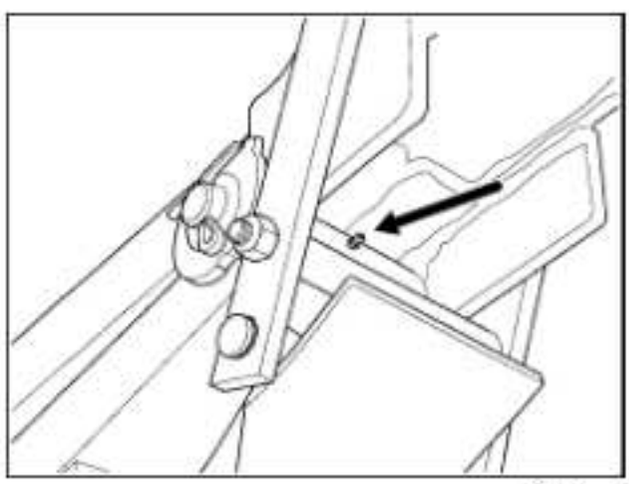
1. Apply **CASE IH AKCELA MULTI-PURPOSE GREASE 251H EP** or NGLI No. 2 multi-purpose lithium grease to the grease fittings.



RD619G56 1



RD619G57 2



RD619G87 3

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >

24 Row 20 Row Pivot-Transport planters

Planter type: 1240 Pivot-Transport planter

- Number of rows: 24
- Row spacing: **508 mm** (**20 in**)
- Lift system: (2) **5-1/2 in** lift cylinders with (2) **3-7/8 in** x **4-3/4 in** cylinders providing wing float.

Gauge wheels: (2) 7.60 x 15 Goodyear farm utility, 6 ply tires

- Tire inflation pressure: **276 kPa** (**40 psi**)
- Wheel lug bolt torque: **109 - 1363 N·m** (**80 - 100 lb ft**)

Gauge wheels (optional): 9.5L x 15 Goodyear farm utility, 6 ply tires

- Tire inflation pressure: **220 kPa** (**32 psi**)
- Wheel lug bolt torque: **109 - 1363 N·m** (**80 - 100 lb ft**)

Transport wheels: 16.5L x 16.1 Goodyear farm utility, 14 ply tires

- Tire inflation pressure: **330 kPa** (**48 psi**)
- Wheel lug bolt torque: **203 - 244 N·m** (**150 - 180 lb ft**)

Transport width with markers:

- Without liquid fertilizer option: **3.73 m** (**12.2 ft**)
- With liquid fertilizer option: **3.84 m** (**12.6 ft**)
- With granular chemical and liquid fertilizer options: **3.89 m** (**12.8 ft**)

Planter height (machine fully raised with markers): **3.05 m** (**10.0 ft**)

Planter wheel tread (wheel center to wheel center)

- **508 mm** (**20 in**) row spacing: **1524 mm** (**60 in**) and **3048 mm** (**120 in**)

Wing float - 11° float

- 24 Row 20 planter: **381 mm** (**15 in**) up, **381 mm** (**15 in**) down at end of the wing.

Row units: Parallel linkage, individually mounted for maximum flexibility to follow ground contour.
Row unit empty weight (without hoppers): **120 kg** (**265 lb**)

Seed openers: Staggered **356 mm** (**14 in**) diameter double disks with precision bearings with internal and external scrapers.

Covering disks: Adjustable **203 mm** (**8 in**) diameter inverted, spring loaded staggered double disks.

Press wheels: Adjustable, **165 x 305 mm** (**6.5 x 12 in**) center rib, Chevron tread, semi-pneumatic rubber tires.

Planter depth: Controlled by equalizer gauge wheel system that equalizes soil pressure on both **102 x 406 mm** (**4 x 16 in**) grooved semi-pneumatic rubber gauge wheel tires.

Planting depth: Adjustable, ASN YCS0286000 (**0.0 - 102 mm** (**0.0 - 4 in**)) and BSN YCS028601 (**0 - 89 mm** (**0 - 3.5 in**).

On-row seed hopper and lid: Molded plastic

- Hopper capacity: **0.067 m³** (**1.9 Bu**)
- Hopper/meter assembly weight (empty): **9.1 kg** (**20 lb**)
- Hopper/meter assembly weight (full): **61 kg** (**134 lb**)

Granular chemical hopper:

- Hopper weight (empty): **5.4 kg** (**12 lb**)
- Hopper weight (full): **37 kg** (**82 lb**)

MidWestTech | Case Early Riser 1240 Pivot Transport Planter Operator's Manual | Pu... Order the manual at mid-west-tech.com >