Precision Air 2280
Precision Air 2330
Precision Air 3380
Precision Air 3430

Air Cart

OPERATOR'S MANUAL

Part number 47492186
6th edition English
April 2013
Replaces part number 47423502

CASE IH AGRICULTURE

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

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Safety features 1-1
Product identification 1-2
Machine orientation 1-4
Electro-Magnetic Compatibility (EMC) 1-5
Shortcut to the field 1-6

2 SAFETY INFORMATION

Safety rules and signal word definitions 2-1
Safety information 2-2
California proposition 65 warning 2-7
Safety signs 2-8
Informational signs 2-29
Ecology and the environment 2-40
Hand signals 2-41

3 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Tractor requirements 3-1
Tow behind air cart hitch configuration 3-3
Connecting the air cart 3-4
Tow behind air cart 3-4
Tow between air cart 3-7

PARKING THE UNIT

Disconnecting the air cart 3-11
Tow behind air cart 3-11
Tow between air cart 3-12

4 TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Transport operations 4-1
Transport lock 4-1
Towing weights 4-2
Transport lighting 4-6
Check lighting system 4-9

5 WORKING OPERATIONS

Product metering

Meter box 5-1

MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Meter roller selection 5-1
Meter roller capacity 5-3
Remove the meter roller 5-4
Check the meter roller 5-6
Install the meter roller 5-8
Setting active and inactive runs 5-10
Sensor location 5-10
Raising the center manifold 5-11
Air cart preparation - mechanical drive cart 5-13
Entering the wheel drive and sprocket teeth 5-13
Drive box chain routing 5-15
Clutches and clutch lights 5-17
Meter / product calibration 5-18
Direct entry of previous product calibration numbers 5-24
Air cart preparation - variable drive cart 5-26
Product calibration procedures 5-26
Meter / product calibration 5-28
Direct entry of previous product calibration numbers 5-33
Metering considerations 5-34
Metering considerations 5-34
Record of settings and calibration numbers 5-35

Air distribution system

Operating the fan 5-36
Setting the air dampers 5-37
Manifold valves 5-38
Two inlet valve 5-38
Three inlet valve - three tank air carts only 5-40
Setting the fan and air dampers to control the air velocity in each meter box 5-42
Air cart fan and damper setting - two tank air carts 5-42
Air cart fan and damper setting - three tank air carts 5-48
Fan and air damper setting chart - two tank air carts 5-55
Fan and air damper setting chart - three tank air carts 5-57
Methods of determining adequate carrying velocities 5-59

Seeding electronic system

Introduction 5-69
When you turn on the display 5-70
Icon legend 5-71
Tank setups 5-74
Tank setups - mechanical drive 5-74
Tank setups - variable drive 5-76
Miscellaneous setups 5-78
Width setups 5-79
Speed setup 5-80
In ground setup 5-82
User setups 5-84
Options setups 5-86
Precision Farming (PF) setups 5-87

MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Calibrations 5-89
Distance / speed calibration 5-89
Meter / product calibration 5-92
Run - mechanical drive 5-93
Run - variable drive 5-95
Clearing an area 5-97
Switch unit 5-98
Changing rates on-the-go 5-100
Prime function - variable drive only 5-101
Adjustments 5-103
Ultrasonic bin sensor aiming and depth adjustment 5-103
Optical low level bin sensor adjustment 5-106
Utilities 5-107
Faults 5-107
Alarms 5-108
Reset 5-109
Diagnostics 5-110
Monitor 5-110
See what's connected 5-112
Version 5-113
Virtual terminal 5-114
Auxiliary 5-115
Help status icons 5-116
Help status icons 5-116
Master clutch jumper (Mechanical drive only) 5-117

Standard auger operation
Before filling the tanks 5-118
Filling the tanks 5-120
Emptying the tanks 5-123
Store the auger 5-125
Empty the auger 5-127

Deluxe auger operation
Auger operation 5-128
Auger remote description 5-129
Before filling the tanks 5-130
Moving auger from transport to tank filling position 5-132
Filling the tanks 5-136
Moving auger to tank emptying position 5-139
Emptying the tanks 5-141
Empty the auger 5-142
Moving auger to transport position 5-143

6 MAINTENANCE
GENERAL INFORMATION
Safety precautions 6-1
Maintenance advice 6-1

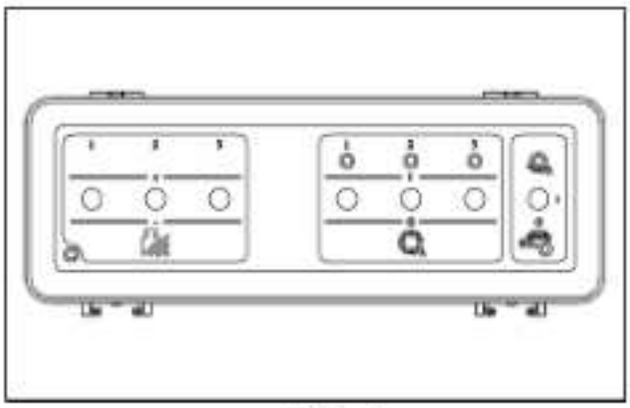
MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Clutches and clutch lights

Clutches may be controlled from the auxiliary switch unit. The master clutch is over-ridden by the optional work switch on the seeding tool.

When the seeding tool is out of ground, the work switch will turn off the master clutch automatically. Refer to page **6-5** for work switch adjustments.

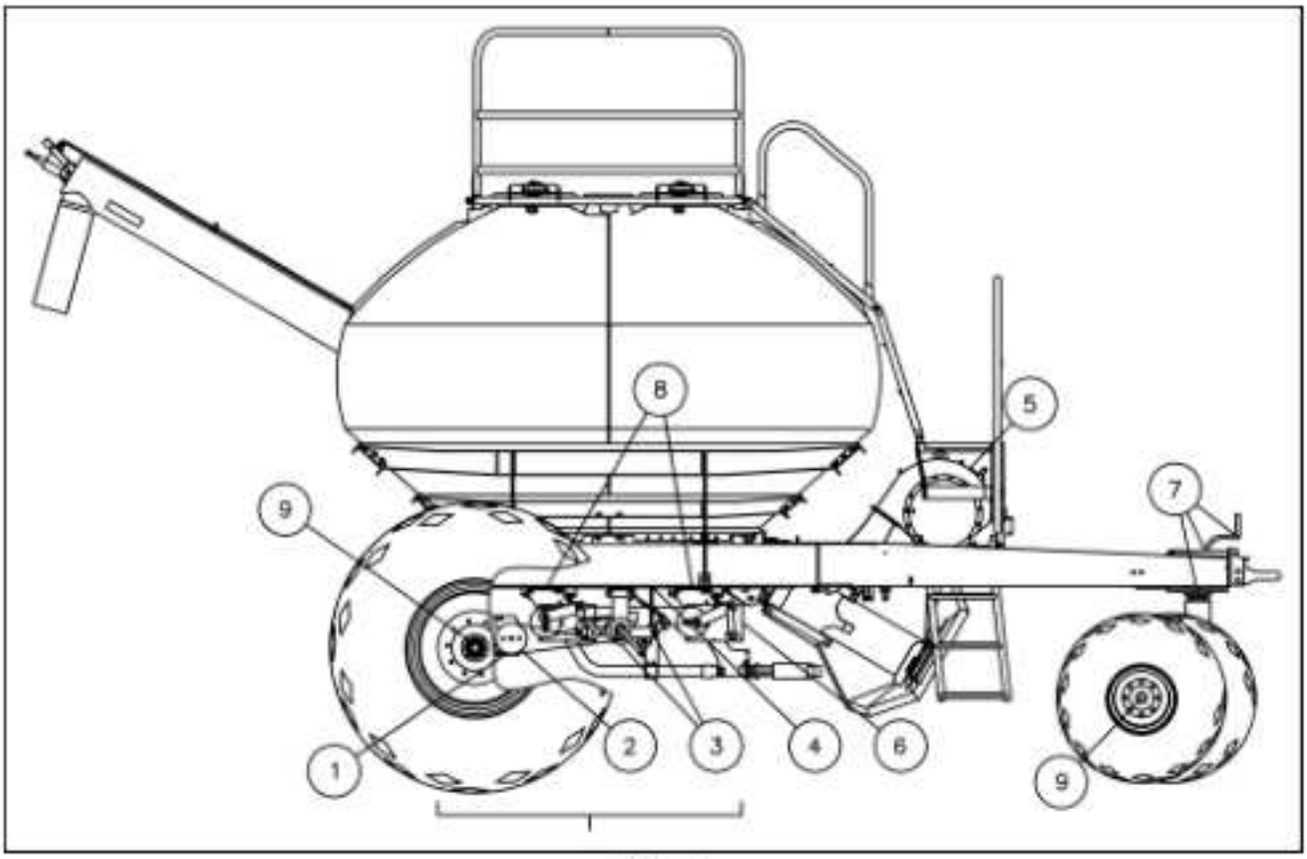
A single beep will be heard when the seeding tool goes from in ground to out of ground or vice versa. A double beep will be heard when the master clutch is either turned on (seeding) or turned off (not seeding). That means that raising the seeding tool will sound 3 beeps, one for the work switch and two for the clutch.



MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Grease locations

Prior operation:
Perform all 10 hour and 50 hour maintenance items.



111080 1

Grease fitting and lubrication locations - Tow behind air cart with mechanical drive shown

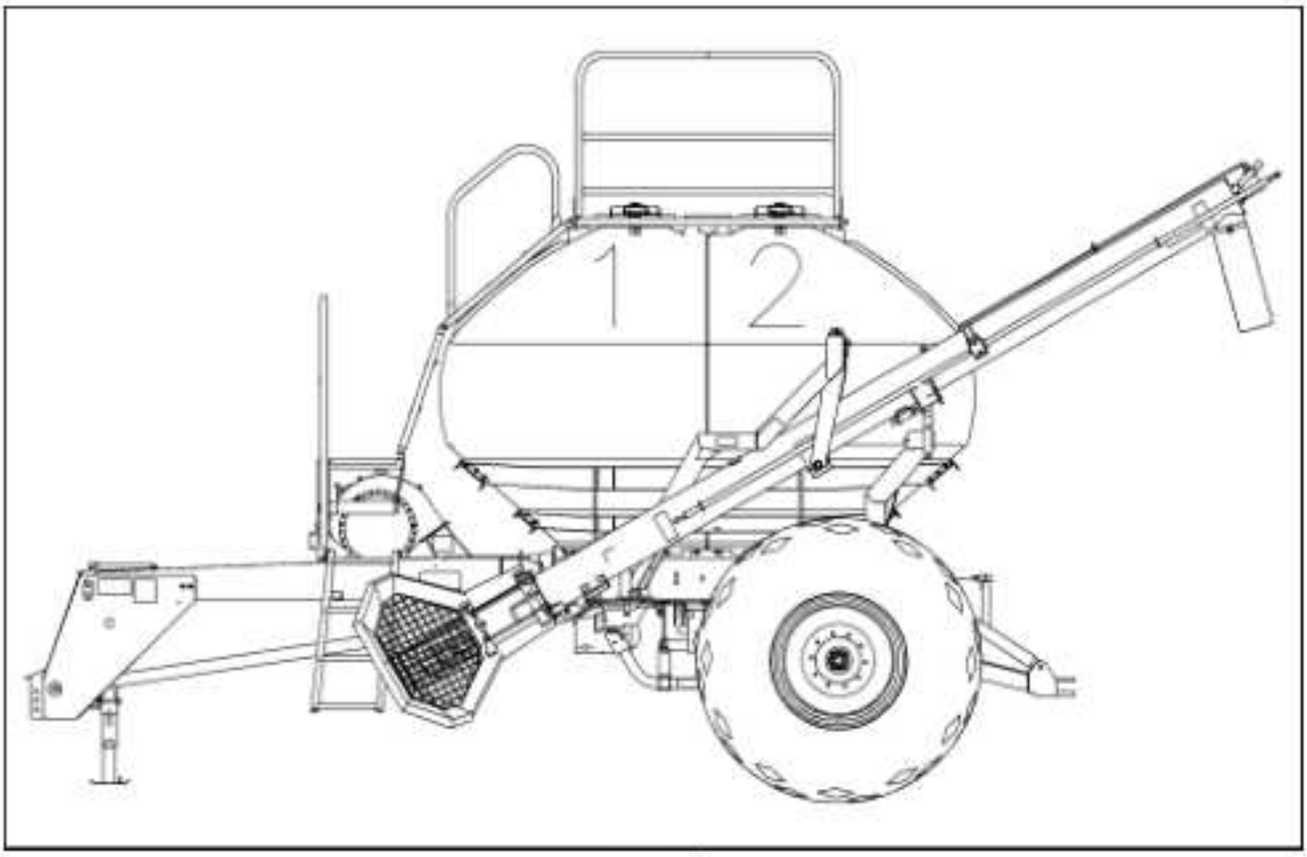
1. Refer to the figure for the following grease locations.
   - **(1)** Drive shaft outer bearing - mechanical drive only
   - **(2)** Drive shaft inner bearing - mechanical drive only
   - **(3)** Mechanic drive - mechanical drive only
   - **(4)** Center Manifold
   - **(5)** Fan
   - **(6)** Meter Box Agitators and Baffle Panel Swell Latches
   - **(7)** Hose holder and caster pivot - tow behind only
   - **(8)** Air dampers
   - **(9)** Wheel bearings

MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Tow between air cart

Capacities

TANK CAPACITIES



1071B9C 1

Tank Positions

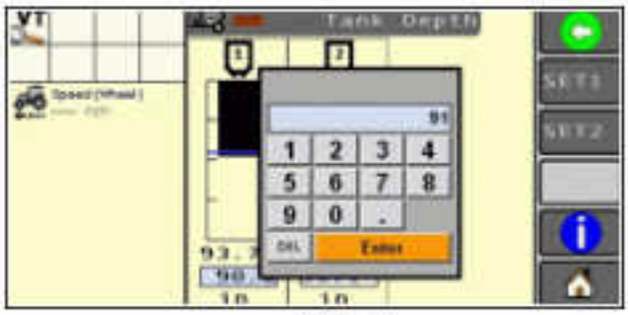
Capacity by volume @ 100 % full*

Model	TOTAL VOLUME L (BUSHELS**)	TANK 1 - FRONT TANK L (BUSHELS**)	TANK 2 - REAR TANK L (BUSHELS**)
Precision Air 2280	10,113 l (280 Bu)	5,955 l (169 Bu)	4,158 l (118 Bu)
Precision Air 2330	11,558 l (330 Bu)	6,554 l (186 Bu)	5,004 l (142 Bu)

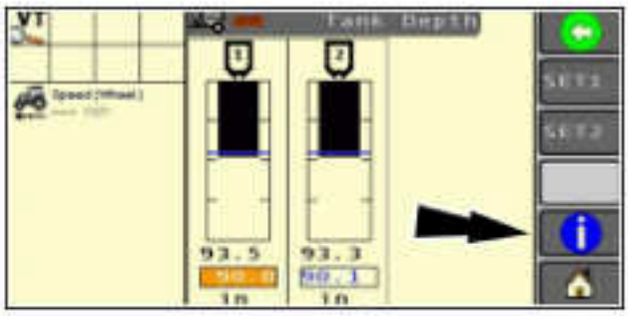
* **100 °** full is when completely filled with the air cart auger, directing product with the auger spout.
** Bushels are calculated at **0.800 Bu** per **1 ft³**.

MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

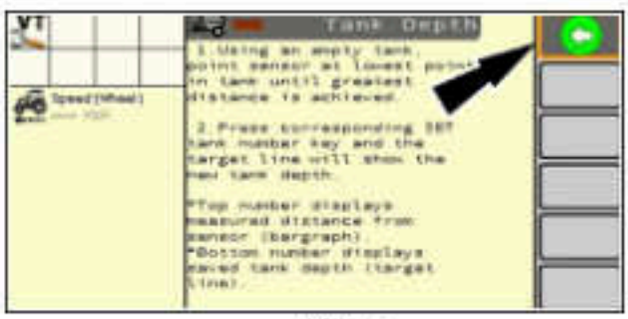
3. Select the user box for the tank you wish to set the depth on and use the keypad to enter the measured tank depth.



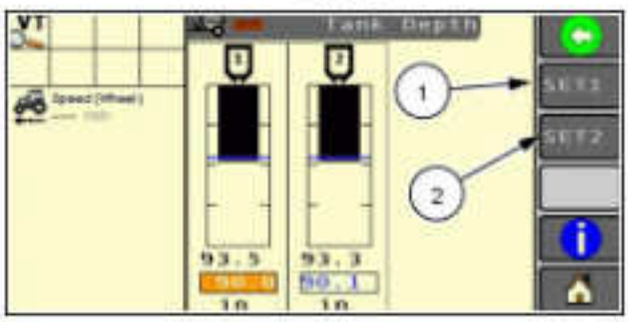
4. You can choose i for extra information on the current screen at any time.



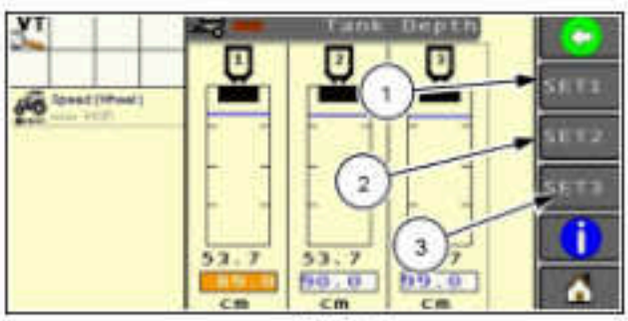
5. The tank depth setting information is shown. Use the back arrow to return to the previous screen.



6. At the air cart, adjust each bin sensor position using the adjustment screws located on the bin sensor mounting assembly.
7. Verify the distance with a rigid tape measure. Tighten the screws when satisfied with the position of the sensor.
8. Select SET1 **(1)** for Tank 1 and SET2 **(2)** for Tank 2.



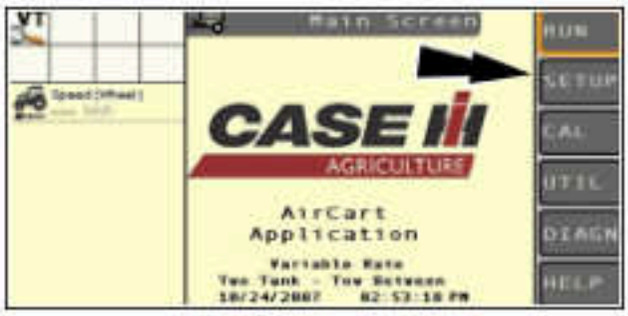
For three tank models, be sure to set the depth for all three tanks.



MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >

Options setups

1. From the Main Screen select SETUP.



1

2. Select OPTNS from the second page of the Setup screen.



2

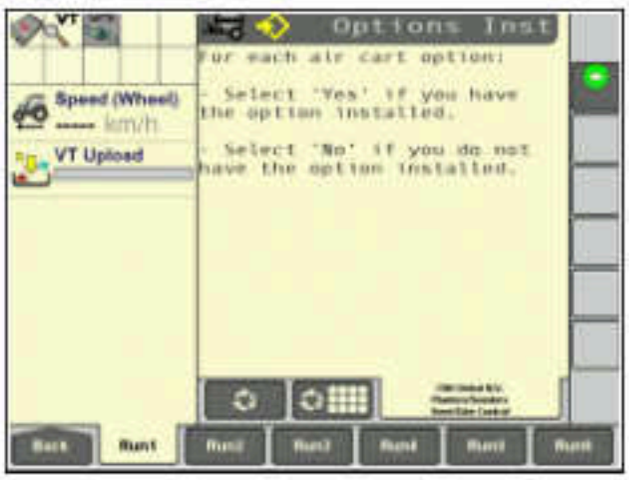
3. Select whether or not the options are installed for the work switch, tank level sensors, or air flow (air velocity) sensors.

These are auto detected, but you MUST confirm that they are installed for proper operation of the air cart and so that actual configuration can be checked against desired configuration.



3

Help is available by pressing i.



4

MidWestTech | Case Precision Air 2280, 2330, 3380, 3430 Air Cart Operator's Manual |... Order the manual at mid-west-tech.com >