

OWNERS OPERATING & PARTS MANUAL

2800 & 3350 2012 AIR SYSTEM

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P/N 330282

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TABLE OF CONTENTS

| Table of Contents4 |
|--|
| Congratulations! |
| Precautions |
| Features and Specifications |
| Mechanical Systems - Setup and Operation |
| D3 System Overview |
| Product Bins and Meters - Setup and Operation |
| Mechanical Systems - Maintenance and Troubleshooting |

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CONGRATULATIONS!

Congratulations on your purchase of an Amity Technology Air Cart! Your Model 2800 or 3350 Air Cart has been designed to be durable, versatile, and simple to use.

Your Air Cart features stainless steel tanks and metering components, a streamlined and reliable meter system, a fill/ unload auger with cupped poly flighting, and a world class ISOBUS-compatible monitoring and control system.

The following pages contain a wealth of important information on your Air Cart's features, equipment and systems. Read this manual carefully to learn how to set up, operate and use this equipment.

PRECAUTIONS

Safety First

The purpose of this manual is to assist you in safely operating and maintaining your Amity Technology equipment. It is the responsibility of the owner to ensure that anyone operating this equipment thoroughly reads and understands the information in this document.

It is not possible to overstate the importance of safety. Serious injury or death can result from improper operation of any farm equipment. We have taken great care to point out potential hazards that require special consideration.



Warning and Caution Symbols

This manual uses the following symbols to signify caution and warning. For your own safety take note of these symbols and exercise caution when working with this equipment.



Warnings

ALWAYS know your equipment. Read the owners manual before operating.

DO NOT allow anyone to ride on the air system.

ALWAYS install and transport stops when transporting the drill.



ALWAYS use an adequate tow vehicle.

ALWAYS remember to properly secure the safety chain.

DO NOT Transport at speed greater than 20 MPH (32 KmPH).

DO NOT modify or alter this equipment without first contacting Amity Technology, LLC.

Caution



ALWAYS keep decals free of dirt and replace if they become damaged. See the parts section for proper placement.

ALWAYS avoid high-pressure fluids. Use a piece of cardboard to search for suspected hydraulic leaks.

FEATURES AND SPECIFICATIONS

Air Cart

| Feature | AS2800 | AS3350 | | | |
|--|---|--|--|--|--|
| Hopper Capacity | 280 Bu (168 rear, 112 front) | 335 bu (200 rear, 135 front) | | | |
| Blower Drive | Hydraulic | Hydraulic | | | |
| Meter Drive | Ground (optional Hydraulic) | Ground (optional Hydraulic) | | | |
| Wheel Spacing | 120" (36.6 m) front 150" (45.7 m) rear (120" rear optional) | 120" (36.6 m) front 150" (45.7 m) rear (120" rear optional) | | | |
| Tire Size | 23.1 x 26 R1 - Standard (58.7 cm x 60 cm) 18.4 x 26 - Optional (46.7 cm x 60 cm) | 23.1 x 26 R1 - Standard (58.7 cm x 60 cm) 18.4 x 26 - Optional (46.7 cm x 60 cm) 10" x 21' (25.4 cm x 6.40 m) 13' 5" (4.09 m) | | | |
| Fill/Unload Auger Cupped steel flighting (poly flighting optional) | 8" x 18' (20.3 cm x 5.49 m) | | | | |
| Total height | 12' 7" (3.84 m) | | | | |
| Total length | 27' (8.23 m) | 27' (8.23 m) | | | |
| Max width | 14' 5" (4.39 m) | 14' 5" (4.39 m) | | | |
| Fill height | 11' (3.35 m) | 11' 10" (3.60 m) | | | |
| Minimum ground clearance | 19" (48.3 cm) | 19" (48.3 cm) | | | |
| Empty weight | 8400 lbs (3810 kg) | 8600 lbs (3900 kg) | | | |

Conversion Factors

| 1 Hectare = 2.47 Acres | 1 lb = 0.45359 kg | 1 bushel = 1.2445 cubic ft |
|-----------------------------|----------------------|--------------------------------|
| 1 acre = 43,560 square feet | 1 lb = 16 oz | 1 bushel = 0.0352 cubic meters |
| 1 acre = .404 Hectares | 1 kg = 35.3 oz | 1 bushel = 9.31 gallons |
| 1 inch = 2.54 cm | 1 oz = 0.028 kg | 1 PSI = 6.8948 kPa |
| 1 foot = 0.3048 m | 1 mph = 1.609 kph | 1 GPM = 3.785 LPM |
| | 1 mile = 1.609347 km | |

Formulas

$$Rate (lbs/min) = \frac{Width (ft) * Speed (mph) * Field Rate (lbs/acre)}{495}$$
$$Performance (acres/hr) = \frac{Width (ft) * Speed (mph)}{8.25}$$

MECHANICAL SYSTEMS - SETUP AND OPERATION

Safety Railing / Ladder

Your Air Cart is equipped with a ladder and safety railings for access to the top of the tanks. Always make sure that the safety railings are secured in the raised position when operating the air system. The railings may be lowered for storage if required.

To lower the railings, remove the top bolt from each of the legs on the railing sections. Rotate the railing section down so that they hang beside the air system and reinsert the bolts in the holes for storage.

Caution

Do not lower the railings while standing on the catwalks. Use a suitable ladder and lower them from below. Always have the railings raised when working on top of the air system.



Safety railings

Product Bin Lids

The compartment lids on the air system compartments must be properly closed and sealed for the meters to deliver product properly.

Periodically check the lid for proper adjustment and inspect the seal for damage.

To determine whether the lid is adjusted properly, observe the lid when it is unlatched. It should incline slightly toward the latch end. A firm pull on the latch handle should be required to over-center the latch.

To adjust the hinge end of the lid, loosen or tighten the jam nuts on the hold down bar. (See photo)

To adjust the latch, loosen or tighten the nuts on the toggle ubolt. (See photo)

In the off season, it is recommended that the latch be released to relieve pressure on the gasket.



Lid and latch with toggle u-bolt adjustment



Jam nuts on hold-down bar

Caution



If equipped with screen baskets, do not step or lean on the screens. They will not support a person's weight and may fall into the tank, resulting in injury.

Auger

Your Air Cart is equipped with an auger for loading and unloading the product bins. The auger is mounted on a swing arm that allows a flexible discharge hose to be moved to each compartment without moving the hopper. The swing arm also enables the auger to be turned around to unload and clean out the compartments.

The auger's hydraulic drive is supplied with oil from the blower hydraulics. A diverter valve above the blower directs oil to the auger. This may be switched with the blower running.

The auger also has a three position variable speed valve mounted on it to run the auger forward, backward or to stop.



Air cart with auger

Using the Auger to Load Products

The auger can be used to load and unload seed tanks. It can be adjusted on brackets to suit the operator's needs.

To place the auger in operating position:

- 1. Drop the front bracket lock pin just far enough to release the small pivot arm. (Unpin the long arm only to unload.)
- 2. Loosen the lock assembly. (Tee Handle)
- 3. Remove the auger from the rear clamp assembly.



Swing arm, bracket lock pin and small pivot arm



Air cart with auger in loading position

- 4. Swing the hopper end of the auger away from the Air System and allow the short pivot arm to come out, away from the machine.
- 5. Place the hopper on the ground in a position perpendicular to the center line of the tanks with the discharge end of the auger between the compartment lids. From this position the discharge end of the auger should be able to be moved between compartments without moving the hopper.

Using the Auger to Unload Products

- 1. Swing the large arm far enough away from the machine to allow the hopper to fit between the wheels.
- 2. Place the hopper under the meter for the compartment you wish to empty.



Placing the hopper under the meter

- 3. Close the metering slide.
- 4. Remove the product meter door.
- 5. Open the metering slide to control flow from the compartment.

Note

Removing the pointer allows the gate to be opened without changing the rate setting.

Cleaning Out the Auger

- 1. Tip the hopper upside down to empty.
- 2. Run the auger backwards until the auger tube is empty.



The meter with door removed



Hopper in the upright position

Ground Drive

On air carts equipped with ground drives a magnetic clutch allows the drive to be disengaged. The magnetic clutch uses electrical power to hold it engaged. The clutch is turned on and off by the D3 System either automatically when the drill is raised and lowered, or manually by pressing a manual Master Work Switch soft key on the virtual terminal in the tractor cab. The clutch requires no service.

When transporting long distances, remove the drive chain at the drive wheel. This will extend chain and sprocket life.

Note

Maximum recommended transport speed is 20 mph

Hydraulic Systems

The hydraulic system on 2800/3350 air systems consists of a blower control circuit, an auger control circuit, and an optional Hydraulic drive control circuit. A combination of various control valves enables all three circuits to be powered by one hydraulic remote on the tractor. This system was designed to function under a maximum hydraulic pressure of 2900 psi.

Hydraulic Capacity

To run the hydraulic blower at the appropriate blower rpm., the tractor must have the following hydraulic capacities:

| Blower RPM | Hydraulic Requirements (Ground Drive) | Hydraulic Requirements (Hydraulic drive) |
|---------------|---|--|
| 5000 | 13 GPM at 1500 to 2200 PSI | 18 GPM at 1500 to 2200 PSI |
| 6000 | 16 GPM at 1700 to 2450 PSI | 21 GPM at 1700 to 2450 PSI |

Air System to Drill Hydraulic Couplers

The couplers connecting the air system to the drill/implement are 3/4 inch, high-flow couplers. Using 3/4 inch couplers reduces the pressure drop across the coupler and enables the operator to easily disconnect the air system from the drill.

The blower motor case drain line employs a 1/2 inch coupler. This smaller size ensures that it cannot be confused with the larger 3/4 inch couplers.

It is important to ensure that the pressure line on the tank is connected to the pressure line on the drill.



Hydraulic Couplers



Tractor to Blower Hydraulic Couplers

One-half (1/2) inch Pioneer tip couplers connect the blower pressure and return lines to the tractor.

A 3/8 inch flat-face coupler tip on the drill connects the case drain line to the tractor. This line must be connected or the blower motor will be damaged. If a case drain return port is not available on your tractor, contact your dealer for assistance in determining how to connect this line to the tractor's hydraulic reservoir.

A 3/4 inch low-pressure return tip is included with all Amity implements. It is also available through Amity Service Parts. If your tractor has a low-pressure port available, this tip can be used on the 3/4 inch blower return line to eliminate the pressure drop caused by the 1/2 inch Pioneer tip and the tractor's hydraulic valve on the return side. This tip can also be used on the case drain line, if the 3/8 inch flat face port is not available and the 3/4 inch low pressure return port is.

Do not install a tee connecting the blower return line and the blower case lines together. The blower case line must always be connected to a direct return to the hydraulic reservoir or blower motor failure will result.

The hydraulic line marked *Pressure* must be used to operate the blower. A check valve is installed in the blower circuit to protect the motor from an accidental pressurization of the return line.

Note

The 3/4 inch low pressure return tip is not compatible with the 3/4 inch high flow fittings used at the front of the cart. They look similar, but they are not compatible.

Hydraulic Drive

Air systems equipped with the hydraulic option use electric-overhydraulic (EOH) technology to control the meter speed independently of ground speed. This gives the operator the benefit of a faster calibration procedure and on-the-go rate changing capability as well as the potential to apply product to a prescription map using GPS.

The hydraulic control valve diverts 5 GPM of hydraulic fluid flow from the fan circuit to power the variable rate drive motors. An electro-proportional flow-control valve controls the speed of each motor, allowing the meters to turn at speeds completely independent of each other.



Tractor Hydraulic Connections (1)



Tractor Hydraulic Connections (2)



Hydraulic Control Valve

Thehydraulic drive motors mount to the meter housing and provide a direct drive of the meter shaft. The motor has a built-in speed sensor to provide accurate meter speed feedback to the electronics system.



Hydraulic Drive Motor

Blower

The air cart's blower system generates air pressure/flow to carry the seed or other input products through the system to the implement. The blower is driven by a hydraulic motor.

Two ¾" hydraulic lines supply oil to the blower. A check valve is used on the return line to protect the system from running backwards. The hydraulic motor on the blower also has an internal check valve to prevent motor cavitation during shut down.

A third smaller (1/2") line connected to the blower motor is a case drain line. It is imperative that this is connected to a line directly to the tractor reservoir. Back pressure on this line will cause the shaft seal on the motor to fail. It is recommended that a female connector is used on this line at the tractor connection so that this line cannot accidentally be connected to pressure.

The only serviceable part on the blower is the shaft seal. This may be replaced if the motor leaks at the shaft. Do not disassemble the motor to replace the shaft seal. It is secured by a snap ring and can be removed with a seal pick.

A diverter valve above the blower selects either the fan or auxiliary (auger and/or winch) function. Push the knob in to run the blower. Pull the knob out to run the auger or winch.



The blower and associated hydraulics

Note

Switch off fan to switch to auger.



Caution

Be sure that the case drain line on the blower motor is not connected to pressure. Damage to the shaft seal or motor will result.



Warning

Do not under any circumstances disassemble the motor. It is very difficult to assemble correctly and motor destruction will result from running an incorrectly assembled motor.

Setting Blower Speed

The blower should be operated at as slow a speed as possible to prevent damage to seed. If operated too slowly, line blockage will occur. Typical blower speeds are between 3800 and 6000 RPM. Drill width, product, rate, humidity and other factors affect blower speed.

One method to determine blower RPM is to remove a final run from the seed boot or shoe. Hold the hose about 5 feet off of the ground pointing straight up. Turn product out of the meter with the blower running. The product coming from the hose should blow out of the hose about 8 inches into the air. Adjust blower RPM accordingly.

If you do not have a run blockage monitor, carefully watch to see that all runs are operating after changing blower speeds. To check runs, turn meter(s) with blower running and look to see that there is product at each ground opener.

Note

The number of outlets on the drill will directly affect the blower rpm. The more outlets in use, the higher the pressure required to maintain blower rpm. See your dealer for hydraulic adjustments to your tractor, if necessary.



Warning

Do not under any circumstances disassemble the motor. It is very difficult to assemble correctly and motor destruction will result from running an incorrectly assembled motor.



Note

A diverter valve (2) above the blower selects fan or auxiliary (auger and/or winch) function. Push the knob in to run the blower. Pull the knob out to run the auger or winch.

Tires and Rims

Inflate tires to the pressure indicated in the adjacent table. Torque lug nuts to 140 ft/lbs and retighten after the first 10 hours of operation.



Caution!

Maximum speed of the air system is 20 mph.



D3 System Overview

Your Air Cart utilizes a state-of-the-art electronic system to monitor and control the air cart's functions. The D3 ISO Monitor system is based on the ISO 11783 standard, often also referred to as ISOBUS. ISOBUS is a communications standard that enables a variety of agricultural electronics systems to talk to each other. Its purpose is to integrate all current and future farm functions by standardizing communication between tractor and implement. ISOBUS permits the use of the same tractor terminal on a number of different machines and hence control of a wide range of implements without the need to reprogram a system.

D3 System Hardware

The D3 ISO System includes a D3 electronic control unit (ECU), which connects to a variety of sensors and an electric-overhydraulic (EOH) meter drive system. The ECU communicates with a virtual terminal (VT) located inside the tractor cab. The VT displays information and enables you to configure, calibrate and operate multiple systems from a single user interface.

D3 Electronic Control Unit

The ECU is mounted on the air system. It monitors all system sensors and controls the meter drives. The ECU connects to the VT in the tractor cab via an interconnecting cable that plugs into the front of the ECU on one end and into the standard ISOBUS connector on the tractor at the other end.

Virtual Terminal

The VT in the tractor cab provides a user interface for the system, communicating with the D3 ECU and (any other ISOBUScompatible equipment you may add to your equipment). Your VT could be the Amity-supplied VT, the tractor's OEM VT, or any other ISOBUS-compatible VT.

Several companies manufacture ISOBUS-compatible virtual terminals. All terminals use the same screen icons to represent the main functions. The control screens, or pages, for the implement (which are displayed in the central area of the screen) are identical for any ISOBUS-compatible terminal.

Currently the following virtual terminals can be used with your ISO Drill Manager system:

- GTA Console 1 and Console 2 (AGCO)
- AFS Pro 600 & Pro 700 (Case IH)
- GreenStar2 & GreenStar3 (John Deere)
- IntelliView II IntelliView Plus II (New Holland)
- IntelliAg (DICKEY-john)
- LH6000 (TeeJet)





D3 ECU



C1000

Blower Speed Sensor

Bin Level Sensor

tion to the ECU.

Optical bin sensors indicate when the level of product in the bin has decreased to the level of the sensor. The same sensor detects all types of products. The sensor height can be adjusted vertically to set the alarm point at any desired level.

An inductive sensor on the blower fan provides speed informa-

Meter Box Flow Sensor

A capacitive sensor detects when the meter box is empty. This indicates if the bin is completely empty, or if the product has stopped flowing into the meter box because of bridging or a leaky lid on the bin.

Meter Shaft Speed Sensor (Ground Drive)

A magnetic proximity sensor is used to detect the speed of the meter shaft. This information is used to claculate how much product has been applied and also indicate that the ground drive system is function properly.

Meter Shaft Speed Sensor (Variable Rate)

If the air system was pruchased with the variable rate option, an integral speed sensor is provided with the hydraulic motor. This sensor is very accurate and provides the prcise meter speed control that is needed.

Ground Speed Sensor

This unit is equipped with a GPS speed sensor. This is used for speed sensing only and cannot be used for mapping.

















PLEASE REFERENCE ISO MANUAL FOR MONITOR OPERATION



2012 Cart Control System

Operators Manual





Adjusting Product Meters

The product meters deliver seed or fertilizer from the product bins to the air stream via a fluted roller. The amount of the roller that is being used determines the rate at which products are applied.

There are two moveable components in the meter that determine the rate setting.

The primary setting is a flow plate adjusted by a rod connected to a pointer. When a rate setting is selected, the pointer is simply placed at that number on the rate decal. A lock bolt on the pointer rod secures the setting.

The second part of the adjustment is the meter shut off slide. For any rate setting the proper place for shut off slide is against the stop on the pointer. This opens the bottom of the tank compartment the proper amount for the rate setting. A $\frac{1}{2}$ drive ratchet supplied in the toolbox is used to adjust the meter shut off slide.

Any time that a new rate is set, the rate setting should be confirmed by calibrating the meter.

A scale and catch bag are supplied in the tool box for calibration.

Once a rate setting is determined from the rate charts and the meter is set to that setting, perform the following calibration procedures.

When using both tanks for one product, determine the rate for each meter by splitting the desired rate by the ratio of the tanks (60/40). This will result in both tanks emptying at the same time.

Example

If you desire to seed 120 lbs. of wheat using both meters, split the desired **pounds per acre** rate to the ratio of the size of the tanks. i.e. If the Air System is a 60/40 split, set one meter to 72 lbs. (120 x.6) and the other meter to 48 lbs. (120 x.4)

Note

When decreasing the meter setting, it may be necessary to close the shutoff slide and turn the meter to empty it. This will empty the meter and allow the plate to move to a smaller setting.



Note

Plate (1) controls how much of meter roller will be used. The shut off slide (2) is opened to the stop on the pointer for any rate setting. When making large rate reductions, close the slide and empty the meter to allow the plate to move to the lower setting. Remember to reopen the slide until it contacts the stop on the pointer.

Ground Drive (GD) Calibration and Operation

If you have a ground drive (GD) system, calibration involves deciding on a fixed target application rate (lbs/acre) and then setting up the meter mechanically to deliver that rate. The ground drive system compensates for speed changes by varying the meter speed to keep application rate uniform. The calibration procedure also includes entering several pieces of information into the D3 System to ensure accurate indications and to avoid nuisance alarms.

Setting up the Application Rate on a GD System

To set up and operate the ground drive:

- 1. Determine your desired target application rate.
- 2. Set the pointer on the product meter to your desired target rate setting.
- 3. Secure the setting by tightening the bolt to lock the pointer rod.
- 4. Use the ratchet supplied to open the shut off slide until it contacts the stop on the pointer.
- 5. Hang the calibration bag on the scale and zero the scale so the weight of the bag will not compromise the accuracy of the measurement.
- 6. Open the clean out door under the air tube by releasing the toggle clamps.
- 7. Turn the crank at the front of the Air System one complete revolution to prime the meter.
- 8. Hang the calibration bag on the meter tube so that the clean out door is inside of the bag and the bag is under the openings in the bottom of the air tube.
- 9. Using the table on the right side of this page, determine the number of turns required to cover 1/10 of an acre.
- 10. Manually crank the meter the required number of turns.
- 11. Remove the bag and weigh it on the scale. Multiply the weight times 10 to get the rate per acre.
- 12. Adjust the meter to a higher or lower setting and repeat the procedure until the desired rate is set.

Seed Rate Setting Tips

- When setting a rate for a small amount per acre such as canola or sunflowers, calibrate with more than 1/10 of an acre amount of turns. Turn out a complete acre for rates less than a 10 lb. rate
- Recalibrate rates after seeding a partial tank.
- *Remember to "prime the meter" by turning the crank before calibrating.*
- *Remember to zero the scale with the empty bag on it before calibrating.*
- Close meter shut off slide on compartment not being calibrated.

Note

Look up the rate setting for each tank separately in the appropriate rate chart.

| Implement Width ft (m) | Turns (of crank) per Acre (Ha) 10T & 23.1R26 | Turns (of crank) per acre (Ha) 15T&23.1R26 17T&18.4R26 |
|------------------------------|--|---|
| 30 (9.1) | 189 (467) | 126 (311) |
| 32 (9.8) | 179 (441) | 119 (294) |
| 34 (10.4) | 168 (415) | 112 (277) |
| 36 (11.0) | 159 (393) | 106 (262) |
| 38 (11.6) | 150 (371) | 100 (247) |
| 40 (12.2) | 143 (352) | 95 (235) |
| 42 (12.8) | 135 (334) | 90 (222) |
| 44 (13.4) | 129 (319) | 86 (213) |
| 45 (13.7) | 128 (315) | 85 (210) |
| 46 (14.0) | 125 (308) | 83 (205) |
| 48 (14.6) | 119 (293) | 79 (195) |
| 50 (15.2) | 114 (282) | 76 (188) |
| 52 (15.8) | 110 (271) | 73 (180) |
| 54 (16.5) | 105 (259) | 70 (173) |
| 56 (17.1) | 102 (252) | 68 (168) |
| 58 (17.7) | 99 (245) | 66 (163) |
| 60 (18.3) | 95 (234) | 63 (156) |

Note

The data in the above table is based on using either of the following:

- 17 tooth gearbox sprocket with 18.4R26 tires
- 15 tooth gearbox sprocket with 23.1R26 tires

Hydraulic Drive Calibration and Operation

Calibration is done in four parts. First, you must prepare the system for calibration. Second, you prime the meter. Third, you take a sample and weigh it. Finally, you enter the sample, or Accumulated weight into the virtual terminal.

Preparing to Calibrate the Meter

Hydraulic power is needed for calibration. The following procedure sets up the air system for the calibration procedure.

- 1. Ensure that the air system's hydraulic lines are connected to a tractor.
- 2. Verify that the tractor hydraulic remote for the blower is in neutral until hydraulic power is needed.
- 3. Ensure that the monitor wire harness is properly connected to the tractor.
- 4. Power up the monitor in the tractor.
- 5. Verify that the VT in the cab is communicating with the Air System ECU.
- 6. Ensure that the meter door is properly attached to the meter.
- 7. Ensure the bin is at least 25% full of the product that will be applied.
- 8. Set the meter gate to the appropriate position for the rate being applied.
- 9. Ensure the auger selector valve is directing oil to the fan/meter circuit.
- 10. Close the blower ball-valve.
- 11. Actuate the tractor remote controlling the blower circuit.
- 12. Make sure the blower is not spinning for the following steps. If the blower is spinning, check the ball valve to make sure that it is full closed and blocking all flow to the blower.
- 13. Open the cleanout door below the meter you wish to calibrate.

The meter must be calibrated if:

- The gate setting has been changed
- A different product is being used
- A different meter roll is being used

Each meter must be calibrated individually, even if all the gates are set the same.



The Auger Selector Valve



Adjusting the Meter Gate

| Mete | Meter Gate Setting Guide – Hydraulic Drive - High Capacity Meter Roll | | | | | | | | | |
|------------------|---|---------------------|---------------------|---------------------|--|--|--|--|--|--|
| Rate Ibs/ac | 30 ft | 40 ft | 50 ft | 60 ft | | | | | | |
| (kg/Ha) | (9m) | (12m) | (15m) | (18m) | | | | | | |
| 50 (56) | 3" (76 mm) | 4" (102 mm) | 5" (127 mm) | 6" (152 mm) | | | | | | |
| 100 (112) | 4" (102 mm) | 6" (152 mm) | 8" (203 mm) | 10" (254 mm) | | | | | | |
| 150 (168) | 6" (152 mm) | 8" (203 mm) | 10" (254 mm) | Max | | | | | | |
| 200 (224) | 8" (203 mm) | 10" (254 mm) | Max | Max | | | | | | |

Priming the Meter

To ensure accurate calibration, the meter must be primed with product.

- 1. On the ECU keypad, locate the button with the number corresponding to the meter you are calibrating. This is called the ECU Calibration button.
- 2. Press the ECU Calibration button once.

The meter roll begins spinning.

- 3. Allow the meter to spin 2 to 3 revolutions to ensure that the meter is full of product.
- 4. Press the same button again to stop the meter.

The meter is now primed.

Note

Each time the calibration button on the ECU is pressed to activate the meter the ECU counts the revolutions of the meter roll. This count is reset each time this process is performed. Once you stop the meter roll, the bag must be weighed. If you did not collect enough product in the bag to obtain a measurable weight, you must dump the bag and start over with an empty bag.

Taking a Sample for Calibration

- 1. Using the weigh scale included with your system, hang the calibration bag (also included) on the scale and zero out the weight of the bag.
- Place the calibration bag below the cleanout opening. Be careful to ensure all product will flow into the bag.
- 3. Press the ECU Calibrate button to activate the meter.
- 4. Allow the meter to spin until the bag is at least half full.
- 5. Press the ECU Calibrate button again to stop the meter.
- 6. Weigh the bag with the supplied scale.

This value is the Accumulated Weight value you will enter into the VT.

Note

Do not press the ECU Calibrate button again until the Accumulated weight is entered into the VT. Pressing the ECU Calibrate button before the weight is entered will clear the rotation counter and void the sample.

- 7. Repeat the previous steps to obtain sample weights for the rest of the meters.
- 8. When all the weights have been found, go back to the tractor and enter the calibration weights into the Product page on the Virtual Terminal.



Note

To calibrate a product meter it must be enabled (active) on its Product page (I).



Entering Accumulated Weight on the VT

- On the Home page, press the soft key for the desired bin. The Product page for the selected bin appears
- 2. On the Product page, select Accum (lbs).
- 3. Enter the accumulated weight value obtained in the meter calibration procedure in pounds.

Repeat Steps 1 to 3 for each additional bin.

Note

Once you enter the Accum value the monitor automatically calculates the Motor Cal value. The Motor Cal value is the number of pounds (lbs) of product applied per revolution of the meter roller. E.g. If the Motor Cal value is 1.2, The meter will deliver 1.2 lbs of material during each revolution of the meter roll.



What is Min and Max Speed?

After the Accum value has been entered, the D3 System calculates the Min Speed and Max Speed values (in mph). These values define the range of speeds you can travel while maintaining accurate application per acre. During planting, if you travel at a speed less than the minimum or greater than the maximum your application accuracy will be compromised.

Manually setting Motor Cal Value for a VR system

Set the Motor Cal value in the D3 System as follows:

- 1. On theVT, navigate to the Product page.
- 2. Select Motor Cal.
- 3. Enter the desired Motor Cal value.



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| 2.7 3.1 3.6 3.4 3.9 4.5 | 2.7 3.1 3.6 4.0 4.5 5.0 5.4 5.8 6.3 6.7 7.2 7.6 8.1 8.5 8.9 9.4 9.8 3.4 3.9 4.5 5.0 5.6 6.2 6.8 7.3 7.8 8.4 8.9 9.5 10.1 10.6 11.2 11.8 12.3 4.1 4.7 5.4 6.8 7.4 8.8 9.4 10.7 11.4 12.1 11.8 12.3 | 4.1 4.7 5.4 6.0 6.8 7.4 8.1 8.8 9.4 10.1 10.7 11.4 12.1 12.8 4.7 5.5 6.3 7.0 7.9 8.7 9.5 10.2 10.9 11.7 12.5 13.3 5.4 6.3 7.0 7.9 8.7 9.5 10.2 10.9 11.7 12.5 13.3 5.4 6.3 7.2 8.0 9.0 9.9 10.8 11.7 12.5 13.4 6.1 7.1 8.1 9.0 10.1 11.1 12.2 13.4 6.3 7.9 9.0 10.1 11.1 12.2 13.2 6.1 7.1 8.1 9.0 10.1 11.1 12.2 13.2 7.4 8.7 9.9 11.0 12.4 13.5 | 8.1 9.4 10.8 12.0 13.5 ROLL PROFILE .483 | |
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| apaci E X 1/2 | 70 N | 2.7 3.4 | 4.0 | 5.4 | 6.7 | 8.1 |
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| T≒ 5 | | 20 25 25 | 30 35 | 40 45 | 50 55 | |

| SOYBEANS | High Capacity Flute P/N 65705 1/4" WIDE X 1/2" DEEP BARS 15T GEAR BOX SPROCKET W/ 18.4 R26 TIRES 15T GEAR BOX SPROCKET W/ 23.1 R26 TIRES | CATION RATE (LBS PER ACRE) | 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 | 3.6 4.1 4.6 5.2 5.7 6.2 6.7 7.2 7.7 8.2 8.8 9.3 9.8 10.4 10.9 11.4 11.9 12.4 | 4.5 5.2 5.8 6.4 7.1 7.8 8.4 9.0 9.6 10.3 10.9 11.6 12.2 12.9 13.6 | 5.4 6.2 6.9 7.7 8.6 9.3 10.1 10.8 11.6 12.3 13.1 13.9 | 7.2 8.0 9.0 10.0 10.9 11.7 12.6 13.5 | 7.2 8.3 9.2 10.3 11.4 12.4 13.4 APPROXIMATE POINTER SETTING | 8.1 9.3 10.4 11.6 12.8 14.0 | 9.1 10.3 11.5 | 10.0 11.4 12.6 14.2 | 10.9 12.4 13.8 | FOLI PROFILE |
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| | Capac DE X 1/ | ATION | 20 | 3.6 | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 | | | - | KOLL |
| | High (1/4" WII | APPLIC | 60 | 3.1 | 3.9 | 4.7 | 5.4 | 6.2 | 7.0 | 7.8 | 8.5 | 9.3 | - 483 |
| | | | WIDTH (FT) | 20 | 25 | 30 | 35 | 40 | 45 | 0 <u>5</u> | | 60 | |

Rate Charts

| BARLEY | High Capacity Flute P/N 65705 1/4" WIDE X 1/2" DEEP BARS 15T GEAR BOX SPROCKET W/ 18.4 R26 TIRES 15T GEAR BOX SPROCKET W/ 23.1 R26 TIRES | AFFLICATION RATE (LDS FER AURE) 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 D | 3.4 3.9 4.5 5.0 5.6 6.2 6.7 7.3 7.8 8.4 8.9 9.5 10.1 10.7 11.2 11.8 12.3 13.4 4.2 4.9 5.6 6.3 7.0 7.7 8.4 9.1 9.8 10.5 11.2 11.8 12.3 12.9 13.4 | 5 5.8 6.7 7.6 8.4 9.2 10.1 10.9 11.8 12.6 13.4 5.9 6.8 7.8 8.8 9.8 10.8 11.7 12.8 13.7 | 6.7 7.8 8.9 10.1 11.2 12.3 13.4 7.5 7.0 10.0 11.4 12.6 13.8 | 8.4 9.8 11.1 12.6 14.0 9.2 10.7 12.2 13.9 | 10.1 11.7 13.4 | ROLL PROFILE | |
|--------|---|---|---|--|--|--|----------------|--------------|--|
| | High 1/4" W | | | 2 | $\left \right $ | | Η | 48 | |
| | | | 20 | 30 | 40 | 55 | 60 | | |

27

Rate Charts

MECHANICAL SYSTEMS - MAINTENANCE AND TROUBLESHOOTING

Routine Maintenance

Drive Line and Steering

Lubricate all drive line bearings and steering components every 50 hours with a SAE multipurpose grease.

Gear Box

The gear box is filled at the factory and requires no maintenance. Service is required only if oil leaks become visible.





Hydraulic Motor

The hydraulic motor can only be damaged by heat or foreign material. Keep your tractor hydraulic oil and filter serviced regularly to ensure long life from your hydraulic components.



Wheel Bearings

Annually check wheel bearings for tightness. Adjust if needed. Repack every three (3) years.

Changing Metering Rolls - Ground Drive System

To change metering rolls on a GD System:

- 1. Close the meter gate or ensure the bin is empty.
- 2. Remove the meter door and set aside.
- 3. Remove the chain from the meter drive sprocket. Do not remove the sprocket.
- 4. Remove the two nuts that hold the bearing on the meter shaft (sprocket end only).
- 5. Pull the shaft out of the meter while holding on to the meter roll.
- 6. Remove the meter roll.
- 7. Re-assemble the meter in reverse order with the desired flute.





Changing Metering Rolls - Hydraulic System

To change metering rolls on a Hydraulic System:

- 1. Close the meter gate or ensure the bin is empty.
- 2. Remove the meter door and set aside.
- 3. Remove the (2) ½" bolts holding the hydraulic motor to the motor mount.
- 4. Remove the two nuts that hold the bearing on the meter shaft (motor-end only).
- 5. Pull the shaft out of the meter (with the motor still attached) while holding on to the meter roll.
- 6. Remove the meter roll.
- 7. Re-assemble the meter in reverse order with the desired meter roll.



Meter Roll Options

Amity's standard high capacity and optional medium capacity meter rollers are constructed of stainless steel for lifetime performance

Four meter roll options are available.

The high capacity roll has eight $1\!\!\!/ _2$ " deep bars and is used for most applications.

The medium capacity roll has twelve $\frac{1}{4}$ " deep bars and is used on smaller machines or for consistently lower seeding or fertilizer rates.

The low volume has a pattern of short, shallow depressions to gradually larger, deeper depressions for very low seeding rate.

The fine product meter roll has a continuous pattern of shallow depressions for very low seeding rates with high accuracy.



Other Meter Adjustments

The following adjustments are done at the factory and should only be done by a trained service technician.

Shims

- The meter roll should have a small gap (.030") between the roll and the meter housing for proper operation. If the gap is too large product can leak around the meter roll into the air stream. If the gap is too tight the meter roll will bind on the housing and cause problems with the meter drive system.
- A .030" thick shim (Amity P/N 65744) can be installed between the meter roll and the meter housing to reduce this gap. The meter shaft needs to be removed to install this shim, see the section on changing meter rolls on the procedure to remove the shaft.
- Ensure the meter roll turns freely after installing or removing any shims. If the meter roll does not turn freely, DO NOT operate the air system until enough shims have been removed to allow the meter roll to turn freely.

Deflector Block

The black plastic deflector block in the rear of the meter prevents seed from flowing around the back side of the meter roll. If needed, this block can be adjusted vertically to increase or decrease the clearance to the meter roll. To adjust, loosen the two nuts on the back side of the meter housing, move the block to the desired position, and tighten the nuts to lock the block into place

Meter Door and Cleanout Door Latches

The tension on these latches can be adjusted to increase or decrease the preload on the meter door and the cleanout door. If the preload is too small, the doors will not seal properly. If the tension is too tight, the latches will be difficult to close. The tension can be adjusted by unlocking the latch and screwing the two stop-nuts evenly in or out. Ensure the door preload is adequate before putting the unit back into service.

Meter Door Tray

The tray on the meter door can be adjusted vertically in order to increase or decrease the tension between the rubber seal on the tray and the meter roll. To adjust, loosen the two nuts holding the tray to the meter door, move the tray to the desired position, and tighten the nuts to lock the tray into place.









Gear Box

The gear box is filled with oil at the factory and does not require service. If a visible leak appears at one of the seals, repair the box and fill half-full with 85W90 oil (Amity P/N: 330132).

The drive line components are protected by a shear pin located on the gearbox coupler. If the pin fails, determine the reason for the failure, remove, and install a new shear pin.

To replace the shear pin:

- 1. Loosen the bolt on the locking tab and rotate the tab out of the machined groove in the shear pin.
- 2. Remove any broken shear pin pieces and line up the holes in the coupler with the hole in the shaft.
- 3. Install a new shear pin.
- 4. Rotate the lock tab into the machined groove on the shear pin and tighten the bolt on the tab.



Gear box



Gear box shear pin

Mechanical Systems Troubleshooting: Common Problems and Solutions

| Symptom | What it means | Recommended Action | | | |
|---|--|--|--|--|--|
| Seed cups will not engage | Shear pin may have broken | Clear obstruction and replace pin. | | | |
| | Clutch has no power going to it | Be sure there is power to clutch using test light. | | | |
| | Clutch may have failed | Replace clutch. | | | |
| Seed cups will not disengage | Sprocket on clutch may have frozen shaft | Check plastic bearing under sprocket. | | | |
| | Short in monitor is supplying power to the clutch. | Find short and repair. | | | |
| Seed is flowing without cups turning. (A small amount of seed flow is normal and not a cause for concern.) | Rubber deflector is not down tightly on flute. | Lower the deflector. | | | |
| | Rubber wiper on seed cup door damaged or not up tightly against flute. | Raise door or replace rubber wiper if damaged. | | | |
| | Product is building up in air delivery system. | Increase blower speed. | | | |
| Excessive seed cracking is occurring | Air stream velocity is too great. | Reduce blower speed or adjust blower baffle on dual air stream machines. | | | |
| Seed boots are plugging | Turning corners too sharply with boots in the ground. | Always raise ground opener before making a sharp turn. | | | |
| | Ground openers have been left in the ground when backing up. | Always raise ground opener before backing up. | | | |
| Product distribution is uneven | A one inch hose may be plugged. | Re-route or cut 1" hoses to eliminate sags. Clear any obstruction in hoses or boots. | | | |
| Uneven delivery rate | Loss of tank pressure. | Check tank lids for leaks.Inspect and replace faulty gaskets. | | | |
| Oil showing up on seed lines | Shaft seal failure on hydraulic motor. | Replace seal. WARNING: DO NOT DISASSEMBLE HYDRAULIC MOTOR!! THE SHAFT SEAL IS AN EXTERNAL REPLACEMENT ITEM. | | | |
| Hydraulic motor slow | Monitor set to wrong blower speed setting (See Monitor Section). | See Monitor Section | | | |
| | Tractor is not putting out adequate oil. | Have tractor dealer inspect tractor hydraulics. | | | |
| | Bad couplers. | Check couplers on tractor and hoses. Try different couplers. | | | |

Storage

- Fully open the seed meters.
- Open clean out doors on the bottom of the air tube.
- Clean any remaining product from tanks.
- Use water to thoroughly clean any compartment used for fertilizer
- Thoroughly clean fertilizer and dirt from cup area.
- Clean the inside of the seed meter door. Fertilizer, seed and dirt accumulate in this area.
- Clean any remaining product from the auger and leave the auger slide open.
- Oil chains.
- Grease all lubrication points.
- Check the gear box for visible leaks. If none, no service is required.
- Release the latch on the tank lids to relieve pressure on the lid gaskets.

AIR SYSTEM ASSEMBLY PARTS
PARTS TABLE OF CONTENTS

| PartsTable of Contents | 37 |
|---|----|
| Assy-Tank/Running Gear | 38 |
| Assy-Airstream Single | 39 |
| Assy-ECU | 40 |
| Assy-Pressuriztion Kit | 42 |
| Assy-Axles Front | 43 |
| Assy-Drawpole & Steering Linkage | 44 |
| Assy-Axles Rear | 46 |
| Assy-Tie Rod | 47 |
| Assy-Hub 65450 & 1017759 | 47 |
| Assy-Meter Driveline | |
| Assy-W&T 18.4x26 R1 8Ply, 16x26x8 | 50 |
| Assy-W&T 23.1x26 R1 10Ply, 20x26x8 | |
| Kit-Calibration Components | |
| Assy-Meterbox | 52 |
| Assy-Meterbox Door | 54 |
| Assy-Blower | 56 |
| Assy-Blower Hydraulics Ground Drive | 58 |
| Assy-Ground Drive | 60 |
| Assy-Blower Hydraulics Hydraulic Drive | 62 |
| Assy-Hydraulic Drive | 64 |
| Assy-Catwalk & Handrails | 65 |
| Assy-Ladder Air System | 66 |
| Assy-Auger & Hydraulics (8"/10") | 66 |
| Assy-Auger Mounting Components (8"/10") | 69 |
| Assy-Doors | |
| Assy-Decals Airs System | 71 |



ASSY-TANK/RUNNING GEAR

| Ref. | Part No. | Description | Qty. |
|------|----------|--|------|
| 1 | 65402 | WLDMT-TANK 2800 | 1 |
| | 65938 | WLDMT-TANK 3350 | 1 |
| 2 | 65406 | WLDMT-RUNNING GEAR | 1 |
| 3 | 65525 | WLDMT-FRONT PANEL | 1 |
| 4 | 65526 | WLDMT-REAR PANEL | 1 |
| 5 | 65512 | GASKET-SEEDBOX .250 | 2 |
| 6 | 64504 | SEALANT-PROGLAZE - OZ. | 90 |
| 7 | 65816 | WLDMT-AUGER MOUNT | 1 |
| 8 | 1012060 | BOLT-HEX: .75 X 2.00 NC GR5 ZP | 14 |
| 9 | 1017000 | NUT-TOPLOCK: .75 NC GR5 ZP | 14 |
| 10 | 1030702 | WASHER-FLAT: .75 ZP | 14 |
| 11 | 1011606 | BOLT-HEX: .50 X 1.25 NC GR5 ZP | 29 |
| 12 | 1011608 | BOLT-HEX: .50 X 1.75 NC GR5 ZP | 11 |
| 13 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 40 |
| 14 | 1011584 | WASHER-FLAT: SAE .50 ZP | 51 |
| 15 | 66043 | BOLT-CRG: SS .250 X 1.25 NC | 20 |
| 16 | 65695 | WASHER-FLAT: .250 SS | 20 |
| 17 | 1033269 | NUT-NYLOCK: .25 NC GR2 SS | 20 |
| 18 | 65678 | WLDMT-LADDER INSIDE 2800 | 2 |
| | 65942 | WLDMT-LADDER INSIDE 3350 | 2 |
| 19 | 1033271 | BOLT-HEX: SS .38 X 1.00 NC | 4 |
| 20 | 1033268 | NUT-NYLOCK: .38 NC GR2 SS | 4 |
| 21 | 65778 | WASHER-FLAT: .375 SS | 8 |
| 22 | 66549 | KIT-LOW VOLUME TANK INSERT 2800 (OPTIONAL) | |
| | 66550 | KIT-LOW VOLUME TANK INSERT 3350 (OPTIONAL) | |
| 22.1 | 34158 | INSERT-LOW VOLUME 5800 (RED) | 1 |
| | 66584 | INSERT-LOW VOLUME 3350 (GREEN) | |
| 22.2 | 66788 | FRAME-LOW VOLUME INSERT | 1 |
| 22.3 | 57109 | NUT-COUPLER .50 X 1.75 ZP | 1 |
| 22.4 | 1011591 | NUT-JAM: .50 NC GR2 ZP | 1 |
| 23 | 1033269 | NUT-NYLOCK: .25 NC GR2 | 2 |
| 24 | 65836 | MOUNT-BIN LEVEL SENSOR | 1 |
| 25 | 65837 | PLATE-BOLTING | 1 |
| 26 | 65838 | BOLT-HEX: SS .25 X 2.00 NC GR5 | 2 |
| 27 | 66509 | BIN LEVEL SENSOR | 1 |
| 28 | 65839 | SCREW-P-H: #10 X .75 NC SS | 2 |
| 29 | 65712 | NUT-NYLOCK: #10-24 SS | 2 |
| 30 | 1026562 | SCREEN BASKET | 2 |
| 31 | 64635 | CASE-MANUAL STORAGE | 1 |
| 32 | 1011595 | BOLT-HEX: .25 X .75 NC GR5 ZP | 4 |
| 33 | 1020416 | WASHER-FLAT: .25 ZP | 4 |
| 34 | 1030946 | NUT-TOPLOCK: .25 NC GR5 ZP | 4 |
| | | | |

ASSY-AIRSTREAM SINGLE

| Ref. | Part No. | Description | Qty. |
|------|----------|--------------------------------|------|
| 35 | 1023159 | GASKET .13 X 5.75 X 7-5" ID | 1 |
| 36 | 65443 | WLDMT-FLANGE & TUBE | 1 |
| 37 | 1011606 | BOLT-HEX: .50 X 1.25 NC GR5 ZP | 4 |
| 38 | 65313 | NUT-NYLOCK: .50 NC GR2 ZP | 4 |



M6001

ASSY-ECU MOUNT

| Ref. | Part No. | Description | Qty. |
|------|----------|--|------|
| 1 | 330339 | ECU-D3 ISO CONTROLLER (ICON) | 1 |
| 2 | 67219 | PLATE-ECU MOUNT | 1 |
| 3 | 1013462 | SCREW | 4 |
| 4 | 1026591 | NUT-K-LOCK: .19 NC GR2 ZP | 4 |
| 5 | 67249 | COVER-ECU MOUNT | 1 |
| 6 | 65452 | COVER-HOSE MOUNT | 1 |
| 7 | 66006 | WLDMT-SHIELD BOX | 1 |
| 8 | 1012901 | PIN-HAIR: .13 X 2.50 ZP | 2 |
| 9 | 1011828 | WASHER-FLAT .38 ZP | 2 |
| 10 | 1011600 | BOLT-HEX: .38 X 1.00 NC GR5 ZP | 2 |
| 11 | 1011586 | WASHER-LOCK: .38 ZP | 2 |
| 12 | 1011576 | NUT-HEX: .38 NC GR2 ZP | 2 |
| 13 | 67088 | TANK HARNESS (NOT SHOWN) | 1 |
| 14 | 67492 | HARNESS-TANK COMPONENT SHORT (NOT SHOWN) | 2 |
| 15 | 67514 | 1/4" WIRE MOUNT (NOT SHOWN) | 4 |
| 16 | 67515 | 3/8" WIRE MOUNT WITH INSERT (NOT SHOWN) | 1 |
| 17 | 66585 | WIRE HARNESS PURSE LOCK WHITE CLIP (NOT SHOWN) | 11 |
| 18 | 67519 | TERMINATING SEAL PLUG (NOT SHOWN) | 1 |
| 19 | 1012901 | PIN-HAIR: .13 X 2.50 ZP | 2 |



ASSY-PRESSURIZATION KIT

| Ref. | Part No. | Description | Qty. |
|------|----------|---|------|
| 1 | 65880 | HOSE-KANAFLEX 1.25" X INCH LENGTH (2800 AS) | 61 |
| | | HOSE-KANAFLEX 1.25" X INCH LENGTH (3350 AS) | 71 |
| 2 | 65881 | PIPE-PVC 1.25" SCH 40 X 4" | 4 |
| 3 | 65882 | ELBOW-PVC 1.25" SCH 40 F X FG | 4 |
| 4 | 65883 | PIPE-PVC 1.25" SCH 40 X 3" | 2 |
| 5 | 65884 | ADAPTER-PVC 1.25" F GLUE X 1.25" | 2 |
| 6 | 65885 | FTG-PVC 1.25 MP X 1.25 MB | 2 |
| 7 | 65880 | HOSE-KANAFLEX 1.25" X INCH LENGTH | 19.5 |
| 8 | 1013134 | CLAMP-HOSE: S.S.#28 1.32-2.25 | 8 |
| 9 | 65917 | CLAMP-HOSE: S.S.#40 | 4 |
| | | | |



ASSY-AXLES FRONT

| Ref. | Part No. | Description | Qty. |
|------|----------|--------------------------------|------|
| 1 | 65429 | WLDMT-TRUNION RH | 1 |
| 2 | 320150 | ASSY-HUB | 2 |
| 3 | 65430 | WLDMT-TRUNION LH | 1 |
| 4 | 65439 | WLDMT-KING PIN | 2 |
| 5 | 1020688 | BEARING-THRUST: TIMKEN T177 | 2 |
| 6 | 1020675 | WASHER-STAR: INTERNAL 1.25" ZP | 2 |
| 7 | 65864 | NUT-JAM: 1.25 NF GR2 ZP | 2 |
| 8 | 65877 | BUSHING-MACHINED | 4 |
| 9 | 65879 | BUSHING-MACHINED | 2 |
| 10 | 67693 | WLDMT-TRUNION MOUNT | 2 |
| 11 | 1012059 | BOLT-HEX: .75 X 3.00 NC GR5 ZP | 16 |
| 12 | 1017000 | NUT-TOPLOCK: .75 NC GR5 ZP | 16 |



ASSY-DRAWPOLE & STEERING LINKAGE

| | | ASST-DRAWPOLE & STEERING LINKAGE | |
|----------|----------|---------------------------------------|--------|
| Ref. | Part No. | Description | Qty. |
| 1 | 67678 | WLDMT-DRAWPOLE | 1 |
| 2 | 65432 | WLDMT-HITCH | 1 |
| 3 | 65442 | WLDMT-KING PIN | 1 |
| 4 | 1020675 | WASHER-STAR: INTERNAL 1.25 ZP | 2 |
| 5 | 65864 | NUT-JAM: 1.25 NF GR2 ZP | 2 |
| 6 | 65440 | WLDMT-KING PIN HITCH | 1 |
| 7 | 65435 | BAR-STOP PLATED | 1 |
| 8 | 65433 | BRACKET-HITCH | 1 |
| 9 | 65434 | BLOCK-SPACER | 1 |
| 10 | 65441 | WLDMT-TOUNGE HINGE BOLT | 1 |
| 11 | 1027881 | HITCH PIN | 1 |
| 12 | 1016663 | WASHER-FLAT | 1 |
| 13 | 1016115 | PIN-HAIR: .19 X 3.25 ZP | 1 |
| 14 | 65887 | WLDMT-CRADLE HOSE SUPPORT | 1 |
| 15 | 66010 | WLDMT-MOUNT HOSE SUPPORT | 1 |
| 16 | 66005 | U-BOLT: .375 X 7.13 X 4 X 7.13 | 2 |
| 17 | 1016999 | NUT-TOPLOCK | 4 |
| 18 | 1013519 | NUT-JAM: .38 NC GR2 ZP | 2 |
| 19 | 1011602 | BOLT-HEX: .38 X 1.50 NC GR5 ZP | 2 |
| 20 | 65813 | BRACKET | 1 |
| 21 | 1011586 | WASHER-LOCK: .38 ZP | 1 |
| 22 | 1011601 | BOLT-HEX: .38 X 1.25 CN GR5 ZP | 1 |
| 23 | 1011598 | BOLT-HEX: .31 X 1.00 NC GR5 ZP | 1 |
| 24 | 1029115 | WASHER-LOCK: .31 ZP | 1 |
| 25 | 65679 | NUT-HEX: SLOT .88 NF GR5 ZP | 1 |
| 26 | 1012375 | PIN-COTTER: .19 X 1.50 NP | 1 |
| 27 | 1013242 | WASHER-LOCK: .25 ZP | 2 |
| 28 | 1011595 | BOLT-HEX: .25 X .75 NC GR5 ZP | 2 |
| 29 | 1032507 | BOLT-HEX: .50 X 4.00 NC GR5 ZP | 2 |
| 30 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 4 |
| 31 | 1011609 | BOLT-HEX: .50 X 2.00 NC GR5 ZP | 2 |
| 32 | 65398 | BUSHING-MACHINED 1.765 X 2.00 X 1.875 | 2 |
| 33 | 65760 | WLDMT-HITCH PIVOT | 1 |
| 34 | 1030702 | WASHER-FLAT: .75 ZP | 8 |
| 35 | 1012061 | WASHER-LOCK: .75 ZP | 8 |
| 36 | 1016598 | BOLT-HEX: .75 X 2.50 NC GR5 ZP | 8 |
| 37 | 1011620 | NUT-HEX: .75 NC GR2 ZP | 8 |
| 38 | 66092 | ASSY-TIE ROD | 2 |
| 39 | 65438 | BOLT-TIE ROD ZP | 2 |
| 40 | 65680 | NUT-HEX: 1.00 NC GR2 ZP | 2 |
| 41 | 1013473 | PIN-COTTER: .19 X 2.00 NP | 2 |
| 42 | 1011748 | ZERK-GREASE: .25 UNF STRAIGHT | 6 |
| 43 | 1011747 | ZERK-GREASE: .25 UNF 90° | 2 |
| 43 44 | 67649 | BUSHING-MACHINED 1.765 X 2.00 X 3.50 | 4 |
| 44 45 | 35801 | TOW RING-66,000 LB (OPTIONAL) | 4 |
| 45 46 | 62096 | BOLT-HEX: .75 X 2.50 NC GR8 ZP | 4 |
| 40 47 | 35132 | WASHER-FLAT: SAE .75 YZP GR8 | 8 |
| 47 48 | 1011434 | NUT: .75 NC GR8 ZP | o 4 |
| 40 49 | 67679 | WLDMT-DRAWPOLE CLEVIS | 4 |
| 49 50 | 65829 | JACK STAND 2000 LB (NOT SHOWN) | 1 |
| 50 | 00029 | | I |



ASSY-AXLES REAR 150"

| Ref. | Part No. | Description | Qty |
|------|----------|--|-----|
| 1 | 58369 | BOLT-HEX: .75 X 3.50 NC GR5 ZP | 16 |
| 2 | 1013834 | NUT-NYLOCK: .75 NC GR2 ZP | 16 |
| 3 | 320159 | ASSY-HUB 8 BOLT W/BRAKE | 1 |
| 4 | 1013242 | WASHER-LOCK: .25 | 8 |
| 5 | 1013940 | BOLT: .25 X 1.25 NC ZP | 8 |
| 6 | 65425 | FLANGE & SPROCKET | 1 |
| 7 | 65436 | WLDMT-SPINDLE RH DRIVE (150") | 1 |
| | 65943 | WLDMT-SPINDLE RH (120") | 1 |
| 8 | 320150 | ASSY-HUB 8 BOLT W/O BRAKE | 1 |
| 9 | 65437 | WLDMT-SPINDLE LH (150") | 1 |
| | 65177 | WLDMT-SPINDLE LH (120") | 1 |
| 10 | 65683 | ROD-TRUSS ZP (150" AXLE ONLY) | 2 |
| 11 | 1020685 | WASHER-FLAT: 1.00 ZP (150" AXLE ONLY) | 4 |
| 12 | 1012664 | NUT-HEX: 1.00 NC GR2 ZP (150" AXLE ONLY) | 4 |
| 13 | 1013539 | WASHER-LOCK: 1.00 ZP (150" AXLE ONLY) | 4 |



ASSY-TIE ROD

| Ref. | Part No. | Description | Qty. |
|------|----------|-------------------------|------|
| 1 | 65536 | TIE ROD - W/BUSHING | 1 |
| 2 | 65864 | NUT-JAM: 1.25 NF GR2 ZP | 1 |
| 3 | 65270 | TIE ROD CLEVIS-ZP | 1 |
| 4 | 65878 | BUSHING-MACHINED | 1 |
| 5 | 1011748 | ZERK-STRAIGHT: .25 UNF | 1 |



ASSY-HUB

| Ref. | Part No. | Description | Qty. |
|------|----------|--|------|
| | 320159 | ASSY-HUB 8 BOLT W/BRAKE (BLACK)(INCLUDES 1-6 &9) | 1 |
| | 320150 | ASSY-HUB 8 BOLT W/0 BRAKE (BLACK)(INCLUDES 1-6 &9) | 3 |
| 1 | 1013470 | NUT-BEVELED | 8 |
| 2 | 65987 | CONE-INNER | 1 |
| 3 | 1012354 | CONE-OUTER | 1 |
| 4 | 1017764 | SEAL | 1 |
| 5 | 320152 | CAP-HUB | 1 |
| 6 | 1030726 | NUT-SPINDLE | 1 |
| 7 | 1030728 | WASHER-SPINDLE | 1 |
| 8 | 1030797 | PIN-COTTER | 1 |
| 9 | 320160 | HUB-8 BOLT W/BRAKE (INCLUDES 10-12) | 1 |
| | 320151 | HUB-8 BOLT W/O BRAKE (INCLUDES 10-12) | |
| 10 | 65944 | STUD-LUG | 8 |
| 11 | 65948 | CUP-INNER | 1 |
| 12 | 1012359 | CUP-OUTER | 1 |



ASSY-METER DRIVELINE

| Ref. | Part No. | Description | Qty. |
|----------|----------|--|--------|
| 1 | 65649 | GEARBOX-PRARIE (1:1) PAINTED | 1 |
| | 330132 | SEAL GEARBOX (65649) | |
| 2 | 65567 | SHAFT-METERDRIVE | 1 |
| 3 | 65688 | WLDMT-METER CRANK | 1 |
| 4 | 65826 | U-JOINT | 1 |
| 5 | 65552 | COUPLER | 1 |
| 6 | 1013218 | PIN-SHEAR: BRASS | 1 |
| 7 | 1013221 | STRIP-SHEAR PIN | 1 |
| 8 | 65693 | BOLT-HEX: SS .38 X 2.50 NC | 2 |
| 9 | 1033268 | NUT-NYLOCK: SS .38 NC GR2 | 3 |
| 10 | 65695 | WASHER-FLAT: SS .25 | 1 |
| 11 | 65696 | WASHER-LOCK: SS .25 | 1 |
| 12 | 65692 | BOLT-HEX: SS .25 X .50 NC | 1 |
| 13 | 1013044 | SCREW-SET: .25 X .25 NC GR8 NP | 1 |
| 14 | 1033262 | WASHER-FLAT: SAE SS .38 | 9 |
| 15 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 3 |
| 16 | 1033271 | BOLT-HEX: SS .38 X 1.00 NC | 6 |
| 17 | 1030961 | BEARING FLANGE ASSY MODIFIED | 1 |
| 18 | 65694 | COLLAR SET SS 1.00 | 1 |
| 19 | 65699 | CHAIN-ROLLER 60-1R-031 NICKEL PLT | 1 |
| | 65701 | LINK-CONNECTOR #60 NICKEL PLT | 1 |
| | 65725 | LINK-OFFSET #60 NICKEL PLT | 1 |
| 20 | 65715 | KEY .250 X .250 X 1.250 SS | 4 |
| 21 | 65945 | SHAFT-CLUTCH DRIVE 120" ZP | 1 |
| | 65654 | SHAFT-CLUTCH DRIVE 150" ZP | 1 |
| 22 | 1011096 | BOLT-HEX: .50 X 1.00 NC GR5 ZP | 1 |
| 23 | 1014443 | WASHER-FLAT: .50 ZP | 1 |
| 24 | 1011581 | WASHER-LOCK: .50 ZP | 1 |
| 25 | 65553 | ASSY-ADAPTER | 1 |
| 26 | 1021090 | CLUTCH-ELECTRIC | 1 |
| 27 | 1013940 | BOLT-HEX: .25 X 1.25 NC GR5 ZP | 4 |
| 28 | 1011587 | NUT-HEX: .25 NC GR2 ZP | 4 |
| 29 | 1013242 | WASHER-LOCK: .25 ZP | 4 |
| 30 | 66181 | BUSHING-ADAPTER | 1 |
| 30 31 | 1018571 | BEARING-PILLOW BLOCK | 2 |
| 32 | 65702 | BOLT-CRG: .31 X 0.75 NC GR5 ZP | 4 |
| 33 | 1029115 | WASHER-LOCK: .31 ZP | |
| 33 34 | | NUT-HEX: .31 NC GR2 ZP | 4 |
| 34 35 | 1011575 | SPROCKET-60BS10 X 1.00 MARTIN | 4 1 |
| | 1012976 | KEY .250 X .250 X 1.250 SS | |
| 36 | 65715 | | 2 |
| 37 | 65703 | CHAIN-ROLLER 60-1R-027 NICKEL PL (NOT SHOWN) | 1 |
| | 65704 | LINK-CONNECTOR 60 NICKEL PLATED | 1 |
| ~~ | 65724 | LINK-OFFSET #60 NICKEL PLATE | 1 |
| 38 | 66075 | SPROCKET- 60BS12 X 1.00 | 1 |
| 39 | 1012976 | SPROCKET-60BS10 X 1.00 - 23.1R26 HIGH RATE | 1 |
| | 66075 | SPROCKET-60BS12 X 1.00 - 18.4R26 HIGH RATE | |
| | 1025228 | SPROCKET-60BS15 X 1.00 - 23.1R26 STANDARD RATE | |
| | 1021069 | SPROCKET-60BS17 X 1.00 - 18.4R26 STANDARD RATE | |
| | | | |



ASSY-W&T 18.4X26 R1 8PLY, 16X26X8

| Ref. | Part No. | Description | Qty. |
|------|----------|----------------------------|------|
| | 65685 | TIRE-MNTD: 18.4X26 R1 8PLY | 4 |
| 1 | 1020719 | WHEEL: 16X26 - 8 BOLT | 1 |
| 2 | 1030988 | TIRE: 18.4X26 R1 8 PLY | 1 |

ASSY-W&T 23.1X26 R1 10PLY, 20X26X8

| Ref. | Part No. | Description | Qty. |
|------|----------|------------------------------|------|
| | 65687 | TIRE-MNTD: 23.1X26 R1 10-PLY | 4 |
| 1 | 1021068 | WHEEL: 20X26 - 8 BOLT | 1 |
| 2 | 1029689 | TIRE: 23.1X26 R1 10 PLY | 1 |



KIT-CALIBRATION COMPONENTS

| Ref. | Part No. | Description | Qty. |
|------|----------|----------------------------|------|
| 1 | 66354 | SOCKET-1.125" (.50" DRIVE) | 1 |
| 2 | 65890 | RATCHET50" DRIVE | 1 |
| 3 | 1032044 | SCALE-CALIBRATION KIT | 1 |
| 4 | 1032048 | BAG-CALIBRATION KIT | 1 |
| 5 | 34569 | PLATE-WRENCH SEED DEPTH | 1 |
| 6 | 65891 | SCREWDRIVER (NOT SHOWN) | 1 |



ASSY-METER BOX

| | | AGG1-METER BOX | |
|------|----------|--|------|
| Ref. | Part No. | Description | Qty. |
| 1 | 65650 | SHAFT-METER ROLL | 1 |
| 2 | 65705 | WLDMT-METER ROLL - HIGH VOLUME | 1 |
| | 1012608 | WLDMT-METER ROLL - MEDIUM VOLUME | |
| | 33851 | WLDMT-METER ROLL - LOW VOLUME | |
| | 67639 | WLDMT-METER ROLL - FINE PRODUCT | |
| 3 | 65632 | WLDMT-TOP SLIDE IN DOOR | 1 |
| 4 | 65707 | PINION-SS | 1 |
| 5 | 66306 | ASSY-MB DOOR W/FLOWPLATE | 1 |
| 6 | 65708 | RUBBER CLEANOUT DOOR | 1 |
| 7 | 65744 | PLATE METER ROLL SPACER | AR |
| 8 | 66062 | BLOCK-METER TOP | 1 |
| 9 | 1033262 | WASHER-FLAT: SAE SS .38 | 8 |
| 10 | 1011586 | WASHER-LOCK: .38 ZP | 2 |
| 11 | 65630 | BOLT-PIN ADJUSTMENT | 1 |
| 12 | 65629 | PLATE-CLEANOUT RETAINER | 2 |
| 13 | 65626 | WLDMT-ANGLE LATCH | 1 |
| 14 | 1033270 | BOLT-HEX: SS .25 X .75 NC | 5 |
| 15 | 66375 | BOLT-HEX: SS .38 X 1.00 NC | 2 |
| 16 | 1033269 | NUT-NYLOCK: SS .25 NC GR2 | 20 |
| 17 | 66043 | BOLT-CRG: SS .25 X 1.25 NC | 12 |
| 18 | 1011576 | NUT-HEX: .38 NC GR2 ZP | 4 |
| 19 | 66077 | BOLT-HEX: SS .25 X 1.00 | 5 |
| 20 | 67484 | WLDMT-MB AIR DAM | 1 |
| 21 | 1032044 | SCALE-CLAIBRATION KIT (NOT SHOWN) | 1 |
| 22 | 64503 | GLUE-MASTERBRAND GASKET (NOT SHOWN) | 1.75 |
| 23 | 66098 | ASSY-CLEANOUT DOOR (INCLUDES ITEMS 12,13,14,16,23) | 1 |
| 24 | 66511 | SENSOR TURCK (WITH END) | 1 |
| 25 | 1023719 | NUT-JAM: SS .31NC | 1 |
| 26 | 66316 | SCREW-THUMB SP HEAD .313-18 X .75 SS | 1 |
| 27 | 1011748 | ZERK-GREASE: .25 UNF STRAIGHT | 2 |
| 28 | 65512 | GASKET-SEEDBOX .250 | 1 |
| 29 | 65695 | WASHER-FLAT: .25 SS | 10 |
| 30 | 66097 | ASSY-DEFLECTOR (NOT SHOWN) | 1 |
| 31 | 65490 | PLATE-INDICATOR DECAL | 1 |
| | | | |



ASSY-METER BOX DOOR

| Ref. | Part No. | Description | Qty. |
|------|----------|--------------------------------------|--------|
| 1 | 66305 | WLDMT-MB DOOR | 1 |
| 2 | 66344 | GASKET-RUBBER MB DOOR | 1 |
| 3 | 66300 | PLATE-MB SEED TRAY | 1 |
| 4 | 66347 | SCREW F-H-S-C: .25 X .75 NC SS | 3 |
| 5 | 66348 | NUT-K-LOCK: .25 NC SS | 3 |
| 6 | 66345 | WIPER RUBBER | 1 |
| 7 | 66310 | SHEET-MB WIPER MOUNT | 1 |
| 8 | 1032095 | SCREW-F-H-S-C: .19 X .625 NC SS | 5 |
| 9 | 1032059 | NUT-K-LOCK: 18-8 SS .19 NC | 5 5 |
| 10 | 65640 | PLATE-METER CLAMP HANDLE | 2 2 |
| 12 | 65639 | SHAFT-METER LATCH | |
| 13 | 67499 | RING-RETAINING .375 SS | 4 |
| 14 | 65655 | U-BOLT: SS .188 X 3.25 X .875 X 3.25 | 2 |
| 15 | 65712 | NUT-NYLOCK: 10-24 GR2 SS | 4 |
| 16 | 65348 | NUT-HEX: SS 10-24 | 4 |
| 17 | 66307 | PLATE-MB FLOW CONTROL | 1 |
| 18 | 66346 | SEAL-RUBBER FLOW CONTROL | 1 |
| 19 | 66309 | PLATE-MB FLOW CONTROL | 1 |
| 20 | 1032093 | SCREW-P-H: #6 X .50 NC SS | 6 |
| 21 | 1032094 | NUT-K-LOCK: 18-8 SS .19 NC | 6 |
| 22 | 1032190 | NUT-JAM: .50 NC SS | 1 |
| 23 | 65661 | ROD-FLOW CONTROL | 1 |
| 24 | 67498 | E-CLIP: .188 SS | 2 |
| 25 | 67497 | PIN-METER LATCH | 2 |
| 26 | 65662 | WLDMT-INDICATOR | 1 |
| 27 | 65311 | PIN-LYNCH: .25 X 1.563 | 1 |
| 28 | 65651 | ASSY-FLOW CONTROL ROD | 1 |



ASSY-BLOWER

| Ref. | Part No. | Description | Qty. |
|------|----------|---|------|
| 1 | 66350 | BRACKET-FAN SPEED SENSOR | 1 |
| 2 | 66510 | SENSOR-FAN SPEED (ISO) | 1 |
| 3 | 1020555 | SCREW-ZIPIN TAP: #12 X 1/2" | 3 |
| 4 | 1020416 | WASHER-FLAT: .25 ZP | 6 |
| 5 | 1011595 | BOLT-HEX: .25 X .75 NC GR5 ZP | 6 |
| 6 | 1020418 | FAN-HYDRAULIC DRIVE 6" | 1 |
| 7 | 66244 | MOTOR-HYDRAULIC W/CHECK PAINTED | 1 |
| | 66752 | SEAL-MOTOR SHAFT | |
| 8 | 1020543 | WLDMT-SCREEN | 1 |
| 9 | 1020540 | SCREEN-END | 1 |
| 10 | 1017708 | BOLT-HEX: .50 X 2.25 NC GR5 ZP | 2 |
| 11 | 1011581 | WASHER-LOCK: .50 ZP | 2 |
| 12 | 1011577 | NUT-HEX: .50 NC ZP | 2 |
| 13 | 1021800 | BOLT-HEX: .38 X .50 NC GR5 ZP | 2 |
| 14 | 1011586 | WASHER-LOCK: .38 ZP | 2 |
| 15 | 63671 | BOLT-FLANGE: .25 X 1.00 NC GR5 ZP | 15 |
| 16 | 65349 | NUT-FLANGE: .25 NC GR5 ZP | 15 |
| 17 | 1013020 | BOLT-HEX: .50 X .75 NC FR5 ZP | 2 |
| 18 | 1020459 | BUSHING 20MM | 1 |
| 19 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 2 |
| 20 | 66099 | ASSY-BLOWER HYDRAULIC | 1 |
| 21 | 67511 | GROMMET-RUBBER 13/16" | 1 |
| 22 | 1014892 | HOSE-HUMP REDUCER | 1 |
| 23 | 66221 | CLAMP-HOSE: #104 4.13-7.00 | 1 |
| 24 | 1026256 | CLAMP-HOSE: #88 3.13-6.00 | 1 |
| 25 | 66099 | ASSY-BLOWER HYDRAULIC (INCLUDES ITEMS 3-19) | 1 |
| 26 | 1020801 | SCREEN 6" (INCLUDES ITEMS 3, 8, AND 9) | 1 |



ASSY-BLOWER HYDRAULIC GROUND DRIVE

| Ref. | Part No. | Description | Qty. |
|------|----------|---|------|
| 1 | 66099 | ASSY-BLOWER HYDRUALIC | 1 |
| 2 | 65718 | WLDMT - FAN MOUNT | 1 |
| 3 | 65846 | VALVE-SELECTOR PAINTED (3-WAY) | 1 |
| 4 | 64060 | 12MB-12MJ-90 | 2 |
| 5 | 66248 | 12MB-12MJ-12MJ | 1 |
| 6 | 65918 | FTG-ADAPTER: 12MB-12MJ | 3 |
| 7 | 62024 | 6MB-8MJ | 1 |
| 8 | 59041 | 12MJ-12FJX-90 | 3 |
| 9 | 59053 | 12MJ-12MJ-12FJX TEE | 1 |
| 10 | 66270 | 6MB-6MJ-90 | 1 |
| 11 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 2 |
| 12 | 1013239 | BOLT-HEX: .38 X 3.00 NC GR5 ZP | 2 |
| 13 | 57668 | 8MJ-8FJX-90 | 1 |
| 14 | 66249 | FTG-ADAPTER: 12MB-12FJX | 1 |
| 15 | 65857 | VALVE-CHECK SAE #12 | 1 |
| 16 | 330077 | HOSE: .50 X 024 12FJX-6FJX | 1 |
| 17 | 67670 | HOSE: .50 X 312 8MB-8FJX | 1 |
| 18 | 67671 | HOSE: .75 X 310 12FJX-12MB | 2 |
| 19 | 65918 | HOSE: .75 X 024 12FJX-12FJX | 1 |
| 20 | 65898 | HOSE: .50 X 240 12FJX-12FJX-90 (8" AND 10") | 1 |
| 21 | 65897 | HOSE: .50 X 240 12FJX-12FJX (8" AND 10") | 1 |
| 22 | 37064 | QUICK COUPLING-MALE 12-12 ORB | 2 |
| 23 | 37065 | QUICK COUPLING-MALE 8-10 ORB | 1 |
| | | | |

+ CASE DRAIN COUPLERS AT TRACTOR

| Ref. | Part No. | Description | Qty. |
|------|----------|--|------|
| 24 | 69119 | FTG-CASE DRAIN JD & CNH (NOT SHOWN) | AR |
| 25 | 69120 | FTG-MOTOR RETURN LINE (NOT SHOWN) | AR |
| 26 | 66199 | PIONEER TIP 8010-15 (NOT SHOWN) | AR |
| 27 | 66961 | FTG-ADAPTER: 8FB-12MB (NOT SHOWN) | AR |
| 28 | 37066 | QUICK COUPLING-FEMALE -12-12 ORB (NOT SHOWN) | AR |
| 29 | 37067 | QUICK COUPLING-FEMALE -8-10 ORB (NOT SHOWN) | AR |



ASSY-GROUND DRIVE

| Ref. | Part No. | Description | Qty. |
|------|----------|-------------------------------|------|
| 1 | 1012986 | BEARING-FLANGE/A | 2 |
| 2 | 1012978 | WASHER-RUBBER | 2 |
| 3 | 1033262 | WASHER-FLAT: SAE SS .38 | 5 |
| 4 | 65694 | COLLAR-SET: 1.00 SS | 2 |
| 5 | 1011576 | NUT-HEX: .38 NC GR2 ZP | 4 |
| 6 | 1011748 | ZERK-GREASE: .25 UNF STRAIGHT | 3 |
| 7 | 1033271 | BOLT-HEX: SS .38 X 1.00 NC | 2 |
| 8 | 65698 | SPROCKET SS #40 | 2 |
| 9 | 65715 | KEY .250 X .250 X 1.250 SS | 2 |
| 10 | 65700 | CHAIN ROLLER 40-1R-039 SS | 1 |
| | 65697 | LINK CONNECTOR SS #40 | 1 |
| | 65726 | LINK OFFSET #40 SS | 1 |
| 11 | 66587 | BRACKET-SHAFT SENSOR | 1 |
| 12 | 66507 | SENSOR-SPEED/SHAFT | 1 |
| 13 | 65695 | WASHER-FLAT: SS .25 | 1 |
| 14 | 1033270 | BOLT-HEX: SS .25 X .75 NC | 1 |
| 15 | 65778 | WASHER-FLAT: SS .38 | 1 |
| 16 | 65706 | WASHER-LOCK: SS .38 | 1 |
| 17 | 1032089 | NUT-HEX: SS .38 NC | 1 |
| 18 | 1033269 | NUT-NYLOCK: SS .25 NC GR2 | 1 |



25 **2**5 **3**

ASSY-BLOWER HYDRAULIC DRIVE

| | AS | | |
|------|----------|---|------|
| Ref. | Part No. | Description | Qty. |
| 1 | 66099 | ASSY-BLOWER | 1 |
| 2 | 65718 | WLDMT-FAN MOUNT | 1 |
| 3 | 65846 | VALVE-SELECTOR PAINTED (3-WAY) | 1 |
| 4 | 67500 | WLDMT-VALVE MOUNT | 1 |
| 5 | 66938 | VALVE-VARIABLE RATE 2-BANK W/CHECK | 1 |
| 6 | 65918 | FTG-ADAPTER: 12MB-12MJ | 4 |
| 7 | 66248 | FTG-TEE: 12MB-12MJ-12MJ | 1 |
| 8 | 37259 | FTG-ADAPTER: 6MB-6MJ | 3 |
| 9 | 62024 | FTG-ADAPTER: 6MB-8MJ | 1 |
| 10 | 63699 | FTG-ELBOW: 12MB-12MJ-45 | 2 |
| 11 | 64060 | FTG-ELBOW: 12MB-12MJ-90 | 3 |
| 12 | 59041 | FTG-ELBOW: 12MJ-12FJX-90 | 3 |
| 13 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 2 |
| 14 | 1013239 | BOLT-HEX: .38 X 3.00 NC GR5 ZP | 2 |
| 15 | 57754 | FTG-ELBOW: 6MB-6MJ 90 | 2 |
| 16 | 67513 | FTG-ELBOW: 4MB-6MJ 90 | 1 |
| 17 | 67670 | HOSE: .50 X 312 8MB-8FJX | 1 |
| 18 | 67671 | HOSE: .75 X 310 12FJX-12MB | 2 |
| 19 | 66245 | HOSE: .75 X 024 12FJX-12FJX | 3 |
| 20 | 67505 | HOSE: .38 X 018 6FJX-6FJX | 1 |
| 21 | 67506 | HOSE: .38 X 080 6FJX-6FJX90 | 2 |
| 22 | 67507 | HOSE: .38 X 150 6FJX-6FJX90 | 2 |
| 23 | 65898 | HOSE: .50 X 240 12FJX-12FJX-90 (8" AND 10") | 1 |
| 24 | 65897 | HOSE: .50 X 240 12FJX-12FJX (8" AND 10") | 1 |
| 25 | 50714 | CLAMP .50 ZP | 1 |
| 26 | 65813 | BRACKET | 3 |
| 27 | 37064 | QUICK COUPLING-MALE 12-12 ORB | 2 |
| 28 | 37065 | QUICK COUPLING-MALE 8-10 ORB | 1 |
| 29 | 57663 | FTG-ELBOW: 8MJ-8FJX-45 | 1 |
| 30 | 57668 | FTG-ELBOW: 8MJ-8FJX-90 | 1 |
| 31 | 66249 | FTG-ADAPTER: 12MB-12FJX | 1 |
| 32 | 33641 | VALVE-BALL 3/4" SAE | 1 |
| | | | |

+ CASE DRAIN COUPLERS AT TRACTOR

. . .

| Ref. | Part No. | Description | Qty. |
|------|----------|--|------|
| 33 | 69119 | FTG-CASE DRAIN JD & CNH (NOT SHOWN) | AR |
| 34 | 69120 | FTG-MOTOR RETURN LINE (NOT SHOWN) | AR |
| 35 | 66199 | PIONEER TIP 8010-15 (NOT SHOWN) | AR |
| 36 | 66961 | FTG-ADAPTER: 8FB-12MB (NOT SHOWN) | AR |
| 37 | 37066 | QUICK COUPLING-FEMALE -12-12 ORB (NOT SHOWN) | AR |
| 38 | 37067 | QUICK COUPLING-FEMALE -8-10 ORB (NOT SHOWN) | AR |



ASSY-HYDRAULIC DRIVE

| Ref. | Part No. | Description | Qty. |
|------|----------|-----------------------------------|------|
| 1 | 34038 | MOUNT-HYD MOTOR METER | 1 |
| 2 | 67063 | BOLT-HEX: SS .50 X 2.00 NC GR5 ZP | 2 |
| 3 | 67481 | MOTOR-METER DRIVE 9.7 CID | 1 |
| | 67518 | SENSOR METER SPEED (NOT SHOWN) | |
| 4 | 67659 | NUT-NYLOCK: SS .50 NC GR5 ZP | 2 |
| 5 | 34808 | BOLT-HEX: SS .63 X 2.00 NC | 2 |
| 6 | 67496 | WASHER-FLAT: .63 SS | 2 |
| 7 | 65552 | COUPLER | 1 |
| 8 | 1013044 | SCREW-SET: .25 X .25 NC GR8 NP | 2 |
| 9 | 66445 | NUT-NYLOCK: .63 NC GR2 SS | 2 |
| 10 | 37042 | FTG-ELBOW: 10MB-6MJ 90 | 1 |
| 11 | 66939 | FTG-ADAPTER: 6MJ-10MB | 1 |
| 12 | 65715 | KEY .250 X .250 X 1.250 SS | 1 |
| 13 | 37356 | WASHER-FLAT: SS .50 ZP | 2 |
| 14 | 67489 | HARNESS-METER SPEED (NOT SHOWN) | 1 |



ASSY-CATWALK & HANDRAILS

| Ref. | Part No. | Description | Qty. |
|------|----------|--------------------------------|------|
| 1 | 65589 | WLDMT-CATWALK | 1 |
| 2 | 65598 | WLDMT-SIDE RAIL | 2 |
| 3 | 65601 | WLDMT-FRONT RAIL | 1 |
| 4 | 65606 | TUBE-FRONT RAILING | 1 |
| 5 | 1011606 | BOLT-HEX: .50 X 1.25 NC GR5 ZP | 9 |
| 6 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 9 |
| 7 | 1015174 | BOLT-HEX: .38 X 2.50 NC GR5 ZP | 12 |
| 8 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 12 |
| 9 | 1011603 | BOLT-HEX: .38 X 1.75 NC GR5 ZP | 2 |
| 10 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 2 |



M6018

ASSY-LADDER AIR SYSTEM

| Ref. | Part No. | Description | Qty. |
|-------------------------|--|--|--------------------------------------|
| 1 | 65607 | WLDMT-UPPER LADDER | 1 |
| 2 | 65617 | WLDMT-LOWER LADDER | 1 |
| 3 | 65623 | WLDMT-LADDER RAIL RH | 1 |
| 4 | 66377 | WLDMT-LADDER RAIL LH | 1 |
| 5 | 62412 | BOLT-HEX: .75 X 1.75 NC GR5 ZP | 2 |
| 6 | 1017000 | NUT-TOPLOCK: .75 NC GR5 ZP | 2 |
| 7 | 59390 | BOLT-HEX: .38 X 2.25 NC GR5 ZP | 8 |
| 8 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 8 |
| 9 | 67100 | MOUNTING BRACKET RH | 1 |
| | 67099 | MOUNTING BRACKET LH (NOT SHOWN) | 1 |
| 10 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 4 |
| 11 | 1011606 | BOLT-HEX: .50 X 1.25 NC GR5 ZP | 4 |
| 12 | 1014443 | WASHER-FLAT: .50 ZP | 4 |
| 7 8 9 10 11 | 59390 1016999 67100 67099 1027461 1011606 | BOLT-HEX: .38 X 2.25 NC GR5 ZP NUT-TOPLOCK: .38 NC GR5 ZP MOUNTING BRACKET RH MOUNTING BRACKET LH (NOT SHOWN) NUT-TOPLOCK: .50 NC GR5 ZP BOLT-HEX: .50 X 1.25 NC GR5 ZP | 2 8 8 1 1 4 4 4 |



ASSY-AUGER & HYDRAULICS (8"/10")

| Ref. | Part No. | Description | Qty. |
|------|----------|---|------|
| 1 | 65719 | ASSY-AUGER 8.00" X 18' | 1 |
| | 66101 | ASSY-AUGER 10" | 1 |
| 1.1 | 65903 | POLY FLIGHTING: 7.00" X 18' | 1 |
| | 66104 | POLY FLIGHTING: 9.00" X 21' | 1 |
| 1.2 | 65906 | TUBE-AUGER: 8.00" X 18' | 1 |
| | 66103 | TUBE-AUGER: 10.00" X 21' | 1 |
| 1.3 | 66259 | POLY FLIGHTING: 7.00" X 6" LG - REPLACEMENT SECTION | REF |
| | 66260 | POLY FLIGHTING: 9.00" X 6" LG - REPLACEMENT SECTION | REF |
| 1.4 | 66418 | FLIGHTING-STEEL: 7.00' X 18' | 1 |
| | 33582 | FLIGHTING-STEEL: 9.00' X 21' | 1 |
| 2 | 65714 | HOSE-FLEX SPOUT 8" X 48" | 1 |
| | 66102 | HOSE-FLEX SPOUT 10" | 1 |
| 3 | 66220 | CLAMP-HOSE #152 (8") | 1 |
| | 66256 | CLAMP-HOSE #188 (10") | 1 |
| 4 | 1032092 | MOTOR-HYDRAULIC PAINTED | 1 |
| | 1023837 | SEAL-KIT: CHARLYNN 61258 | |
| 5 | 66079 | BOLT-HEX: SS .375 X 2.75 NC | 1 |
| 6 | 1033268 | NUT-NYLOCK: .38 NC GR2 SS | 1 |
| 7 | 65313 | NUT-NYLOCK: .50 NC GR2 ZP | 2 |
| 8 | 1011607 | BOLT-HEX: .50 X 1.50 NC GR5 ZP | 2 |
| 9 | 1011600 | BOLT-HEX: .38 X 1.00 NC GR5 ZP | 8 |
| 10 | 1013338 | NUT-NYLOCK: .38 NC GR2 ZP | 19 |
| 11 | 66107 | HANDLE-AUGER VALVE ZP | 1 |



ASSY-AUGER & HYDRAULICS (8"/10") (continued)

| Ref. | Part No. | Description | Qty. |
|------|----------|----------------------------------|-------------|
| 12 | 58747 | NUT-HEX: .31 NF GR5 ZP | 2 |
| 13 | 65845 | VALVE-CONTROL 4 WAY PAINTED | 1 |
| 14 | 1019550 | BOLT-HEX: .25 X 1.50 NC GR5 ZP | 3 3 3 |
| 15 | 1013242 | WASHER-LOCK: .25 ZP | 3 |
| 16 | 1011587 | NUT-HEX: .25 NC GR2 ZP | 3 |
| 17 | 1011586 | WASHER-LOCK: .38 ZP | 4 |
| 18 | 1011601 | BOLT-HEX: .38 X 1.25 NC GR5 ZP | 4 |
| 19 | 1011828 | WASHER-FLAT: .38 ZP | 4 |
| 20 | 65723 | HOSE KIT: AIR SYSTEM - REFERENCE | 1 |
| 21 | 65907 | HOPPER-POLY: 8" | 1 |
| | 66277 | HOPPER-POLY: 10" | 1 |
| 22 | 65908 | PLATE-MOTOR MOUNT: 8" | 1 |
| | 66257 | PLATE-MOTOR MOUNT: 10" | 1 |
| 23 | 65912 | MOUNT-HOPPER: 8" | 1 |
| | 66258 | MOUNT-HOPPER: 10" | 1 |
| 24 | 65913 | PLATE-BACKING | 2 |
| 25 | 65914 | BEARING-FLANGE | 2 |
| 26 | 65915 | BEARING-WOOD: 1.25 | 1 |
| | 33650 | BEARING-WOOD: 1.50 | 1 |
| 27 | 65916 | MESH-HOPPER: 8" (NOT SHOWN) | 1 |
| | 66337 | MESH-HOPPER: 10" (NOT SHOWN) | 1 |
| 28 | 65896 | HOSE50 X 156" 8FJX-8FJX-90 | 2 |
| 29 | 64060 | FTG-ELBOW: 12MB-12MJ-90 | 2 |
| 30 | 65901 | FTG-ELBOW: 10MB-8MJ-90 | 2 |
| 31 | 58195 | FTG-ADAPT: 10MB-8MJ | 2 |
| 32 | 66443 | TOP HANDLE | 1 |
| 33 | 66442 | BOTTOM HANDLE | 1 |
| 34 | 1014124 | BOLT-HEX: .31 X 1.50 NC GR5 ZP | 1 |
| | | DECALS - REFERENCE PAGE 51 | |
| 34 | 65644 | DECAL-DANGER | REF |
| 35 | 65646 | DECAL-WARNING | REF |
| 36 | 65647 | DECAL-DANGER | REF |
| | | | |



| ASSY-AUGER MOUNTING COMPONENTS (8"/10") | | | |
|---|----------|---------------------------------|--------|
| Ref. | Part No. | Description | Qty. |
| 1 | 65462 | WLDMT-LONG AUGER MOUNT PAINTED | 1 |
| 2 | 1011623 | BOLT-HEX: .63 X 2.00 NC GR5 ZP | 2 |
| 3 | 1013024 | WASHER-FLAT: .63 ZP | 4 |
| 4 | 1011578 | NUT-HEX: .63 NC GR2 ZP | 2 |
| 5 | 1011607 | BOLT-HEX: .50 X 1.50 NC GR5 ZP | 4 |
| 6 | 65313 | NUT-NYLOCK: .50 NC GR2 ZP | 10 |
| 7 | 65479 | WLDMT-PIN | 1 |
| 8 | 60965 | PIN-ROLL: .19 X 1.50 ZP | 1 |
| 9 | 50714 | 1023147 CLAMP 1/2" ZP | 10 |
| 10 | 1011586 | WASHER-LOCK: .38 ZP | 3 3 |
| 11 | 1011600 | BOLT-HEX: .38 X 1.00 NC GR5 ZP | |
| 12 | 65486 | AUGER BRACKET-PAINTED | 1 |
| 13 | 1014443 | WASHER-FLAT: .50 ZP | 10 |
| 14 | 65488 | WLDMT-HANDLE | 1 |
| 15 | 65468 | WLDMT-ARM SHORT PAINTED | 1 |
| 16 | 1011726 | PIN-ROLL: .25 X 2.00 NP | 2 |
| 17 | 65487 | PIN-LOCK | 1 |
| 18 | 1016115 | PIN-HAIR: .19 X 3.25 ZP | 1 |
| 19 | 65475 | WLDMT-PIVOT TUBE | 1 |
| 19.1 | 64505 | GRIP-HANDLE RED 1" ID X 5.06" L | 1 |
| 20 | 65721 | BOLT-HEX: 1.00 X 7.00 NC GR5 ZP | 1 |
| 21 | 65684 | NUT-NYLOCK: 1.00 NC GR2 ZP | 1 |
| 22 | 1011609 | BOLT-HEX: .50 X 2.00 NC GR5 ZP | 6 |
| 23 | 65909 | CLAMP-TOP BRACKET: 8" | 1 |
| | 66253 | CLAMP-TOP BRACKET: 10" | 1 |
| 24 | 65910 | CLAMP-BOTTOM BRACKET: 8" | 1 |
| | 66254 | CLAMP-BOTTOM BRACKET: 10" | 1 |
| 25 | 65911 | ASSY-CLAMP: 8" | 1 |
| | 66255 | ASSY-CLAMP: 10" | 1 |



ASSY-DOORS

| Ref. | Part No. | Description | Qty. |
|------|----------|--------------------------------|------|
| 1 | 65558 | WLDMT-TOP DOOR | 1 |
| 2 | 65555 | SPACER-DOOR HINGE | 2 |
| 3 | 65554 | SPACER-DOOR HINGE | 2 |
| 4 | 1017708 | BOLT-HEX: .50 X 2.25 NC GR5 ZP | 2 |
| 5 | 1011584 | WASHERPFLAT: SAE .50 ZP | 4 |
| 6 | 1027461 | NUT-TOPLOCK: .50 NC GR5 ZP | 2 |
| 7 | 65559 | WLDMT-CLAMP LEVER | 1 |
| 8 | 65556 | ROD-ADJUSTMENT ZP | 1 |
| 9 | 1026259 | NUT-JAM: .63 NC GR2 ZP | 1 |
| 10 | 65557 | WLDMT-CLAMP ADJ TUBE ZP | 1 |
| 11 | 65560 | PIIN-CLAMP LEVER | 1 |
| 12 | 1013004 | WASHER-FLAT: SAE .63 ZP | 4 |
| 13 | 65656 | U-BOLT: .313 X 5.00 X 2 X 5.00 | 1 |
| 14 | 1030700 | NUT-TOPLOCK: .31 NC GR5 ZP | 2 |
| 15 | 1020506 | NUT-JAM: .31 NC GR2 ZP | 4 |
| 16 | 1011602 | BOLT-HEX: .38 X 1.50 NC GR5 ZP | 2 |
| 17 | 1014608 | WASHER-FLAT: SAE .38 ZP | 8 |
| 18 | 1016999 | NUT-TOPLOCK: .38 NC GR5 ZP | 2 |
| 19 | 65902 | GRIP-BLACK 1" ID X 5.06"L | 1 |
| 20 | 64504 | SEALANT-PROGLAZE (NOT SHOWN) | 100 |
| 21 | 1026562 | SCREEN BASKET | 2 |



ASSY-DECALS AIR SYSTEM 2800 (3350)

| Ref. | Part No. | Description | Qty. |
|------|-----------|--|------|
| 1 | 997761 | REFLECTOR, RED | 4 |
| 2 | 997662 | REFLECTOR ORANGE | 4 |
| 3 | 997663 | REFLECTOR YELLOW | 6 |
| 4 | 9971009 | SAFETY SIGN, SPEED SIGN, 30 km/h | 1 |
| 5 | 997861 | SAFETY SIGN, READ MANUAL | 1 |
| 6 | 997857 | SAFETY SIGN, FASTEN SAFETY CHAIN | 1 |
| 7 | 997853 | SAFETY SIGN, UNHITCHING HAZARD | 1 |
| 8 | 997859 | SAFETY SIGN, ENGINE OFF | 1 |
| 9 | 997863 | SAFETY SIGN, HIGH VOLTAGE | 5 |
| 10 | 997867 | SAFETY SIGN, FLUID UNDER PRESSURE | 1 |
| 11 | 997840 | SAFETY SIGN, CHEMICAL HAZARD | 3 |
| 12 | 700732049 | SAFETY SIGN, EXPLODING PARTS READ MANUAL | 3 |
| 13 | 9971011 | SAFETY SIGN, MOVING PART HAZARD | 2 |
| 14 | 997841 | SAFETY SIGN, CRUSHING HAZARD | 3 |
| 15 | 9971015 | SAFETY SIGN, FALL OFF HAZARD | 2 |
| 16 | 700731523 | SAFETY SIGN, HOT SURFACE, HAND, | 1 |



ASSY-SAFETY LIGHT

| Ref. | Part No. | Description | Qty. |
|------|----------|------------------------------------|------|
| 1 | 65831 | BRACKET-LIGHT LH | 1 |
| 2 | 65832 | BRACKET-LIGHT RH | 1 |
| 3 | 66011 | BRACKET-LIGHT | 2 |
| 4 | 65833 | BRACKET-CONNECTOR 7 PIN | 1 |
| 5 | 1033271 | BOLT-HEX: .38 X 1.00 NC GR5 SS | 4 |
| 6 | 1033268 | NUT-NYLOCK: .38 NC GR2 SS | 4 |
| 7 | 65341 | MODULE-INTERFACE | 1 |
| 8 | 65333 | LAMP-RED TAIL | 2 |
| 9 | 65334 | LAMP-AMBER FLASHING | 2 |
| 10 | 65340 | HARNESS-SAFETY LIGHT S279.11 | 1 |
| 11 | 65354 | HARNESS-LIGHT EXTENSION | 2 |
| 12 | 1011598 | BOLT-HEX: .31 X 1.00 NC GR5 ZP | 4 |
| 13 | 1018693 | NUT-NYLOCK: .31 NC GR2 ZP | 4 |
| 14 | 1013122 | TIE-CABLE, NYLON 14.00" | 20 |
| 15 | 65839 | SCREW-PAN HEAD: #10-24 NC X .75 LG | 4 |
| 16 | 65348 | NUT-HEX: #10-24 NC | 4 |