2940 AIR ADJUST RESIDUE MANAGER
USING YETTER’S ELECTRIC COMPRESSOR
OPERATOR’S MANUAL
PART IDENTIFICATION
2565-773_REV_E ● 1/16

*Patented

YETTER MANUFACTURING CO.
FOUNDED 1930

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BOLT TORQUE

Mounting bolts and hardware

All hardware used on the 2940 Air Adjust is Grade 5 unless otherwise noted. Grade 5 cap screws are marked with three radial lines on the head. If hardware must be replaced, be sure to replace it with hardware of equal size, strength and thread type. Refer to the torque values chart when tightening hardware.

Important: Over tightening hardware can cause as much damage as when under tightening. Tightening hardware beyond the recommended range can reduce its shock load capacity.

The chart below is a guide for proper torque. Use it unless a specified torque is called out elsewhere in the manual. Torque is the force you apply to the wrench handle or the cheater bar, times the length of the handle or bar. Use a torque wrench whenever possible.

The following table shows torque in ft. lbs. for coarse thread hardware.
You've just joined an exclusive but rapidly growing club.

For our part, we want to welcome you to the group and thank you for buying a Yetter product.

We hope your new Yetter products will help you achieve both goals-increase your productivity and increase your efficiency so that you may generate more profit.

This operator's manual has been designed into four major sections: Foreword, Safety Precautions, Installation Instructions and Parts Breakdown.

This SAFETY ALERT SYMBOL indicates important safety messages in the manual. When you see this symbol, be alert to the possibility of PERSONAL INJURY and carefully read the message that follows.

The word NOTE is used to convey information that is out of context with the manual text. It contains special information such as specifications, techniques and reference information of a supplementary nature.

The word IMPORTANT is used in the text when immediate damage will occur to the machine due to improper technique or operation. Important will apply to the same information as specified by note only of an immediate and urgent nature.

It is the responsibility of the user to read the operator's manual and comply with the safe and correct operating procedure and to lubricate and maintain the product according to the maintenance schedule in the operator's manual.

The user is responsible for inspecting his machine and for having parts repaired or replaced when continued use of the product would cause damage or excessive wear to the other parts.

It is the user's responsibility to deliver his machine to the Yetter dealer who sold him the product for service or replacement of defective parts, which are covered by the warranty policy.

If you are unable to understand or follow the instructions provided in this publication, consult your local Yetter dealer or contact:

YETTER MANUFACTURING CO.
309/776-4111
800/447-5777
309/776-3222 (FAX)
Website: www.yetterco.com
E-mail: info@yetterco.com

WARRANTY

Yetter Manufacturing warrants all products manufactured and sold by it against defects in material. This warranty being expressly limited to replacement at the factory of such parts or products as shall appear to be defective after inspection. This warranty does not obligate the Company to bear cost of labor in replacement of parts. It is the policy of the Company to make improvements without incurring obligations to add them to any unit already sold. No warranty is made or authorized to be made, other than herein set forth. This warranty is in effect for one year after purchase.

DEALER: ________________________________

Yetter Manufacturing warrants its own products only and cannot be responsible for damages to equipment on which mount
SAFETY

A brief description of signal words that may be used in this manual:

CAUTION: Used as a general reminder of good safety practices or to direct attention to unsafe practices.

WARNING: Denotes a specific potential hazard.

DANGER: Denotes the most serious specific potential hazard.

SAFETY PRECAUTIONS

You can make your farm a safer place to live and work if you observe the safety precautions given. Study these precautions carefully and insist that those working with you and for you follow them.

Finally, remember this: an accident is usually caused by someone’s carelessness, neglect or oversight.

⚠️ WARNING

Never clean, lubricate or adjust a machine that is in motion. Always lower or block the implement before performing service.

If the machine must be serviced in the raised position, jack or block it up to prevent it from accidentally falling and injuring someone.

Do not allow riders on the tractor or implement.

Use speeds and caution dictated by the terrain being traversed. Do not operate on any slope steep enough to cause tipping or loss of control.

Be sure all personnel are clear of the immediate area before operating.

Read and understand the operator’s manual and require all other persons who will operate the equipment to do the same.

Be familiar with all tractor and implement controls and be prepared to stop engine and implements quickly in an emergency.

⚠️ CAUTION

Consult your implement and tractor operator’s manual for correct and safe operating practices.

Beware of towed implement width and allow safe clearance.

⚠️ FAILURE TO HEED MAY RESULT IN PERSONAL INJURY OR DEATH.
## Components, Kits, Accessories, & Ordering Numbers

### Residue Manager Kits
- **2940-001**: Pneumatic Residue Manager (RM) Assembly with choice of wheel kit (JD 1700 & 7200, White 9000)  
- **2940-002**: Pneumatic Narrow RM Assembly with choice of wheel kit (JD 1700 & 7200, White 9000, AME)  
- **2940-003**: Pneumatic RM Assembly with choice of wheel kit (CNH 800 – 1200)  
- **2940-004**: Pneumatic Narrow RM Assembly with choice of wheel kit (CNH 800 – 1200)  
- **2940-005**: Pneumatic RM Assembly with choice of wheel kit (JD 7000, White 6000 & 8000, Kinze 2000, 3000, & 4900)  
- **2940-006**: Pneumatic Narrow RM Assembly with choice of wheel kit (JD 7000, White 6000 & 8000, Kinze 2000, 3000, & 4900)  
- **2940-007-Y15**: Pneumatic RM/Couler Combo with choice of wheel kit & couler blade (JD 7000, White 6000 & 8000, Kinze)  
- **2940-010-Y15**: Pneumatic RM/Couler Combo with choice of wheel kit & couler blade (JD 1700 & 7200, White 9000)  
- **2940-018**: Coulter Less RM Less Blade for JD 7000, Agco 6000 & 8000, Kinze  
- **2940-019**: Coulter Less RM Less Blade for JD 1700, 7200, Agco 9000

### Control Kits
- **2940-050**: Electric Pneumatic Compressor Kit

### Air Lines and Wiring Kits
- **2940-065**: 20’ planter wiring and tubing kit  
- **2940-066**: 30’ planter wiring and tubing kit  
- **2940-067**: 40’ planter wiring and tubing kit  
- **2940-068**: 48’ planter wiring and tubing kit  
- **2940-069**: 60’-66’ planter wiring and tubing kit  
- **2940-070**: 80’-90’ planter wiring and tubing kit  
- **2940-071**: 120’ planter wiring and tubing kit  
- **2940-072**: Split Row/Interplant Kit  
- **2940-073**: Center Tube Extension Kit

### Mounting Kits
- **2940-085**: Compressor Mount Bracket Two Point Hitch Kit for 2940-101  
- **2940-086**: Compressor Mount Bracket Draft Tube Kit or Universal Kit for 2940-101

### Part Numbers and Descriptions

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INTRODUCTION

The Yetter Electric Air Compressor assembly builds 95psi of air pressure and dispenses that air to the row cleaners’ air bags as the operator commands it from the tractor cab. Yetter electric compressors are durably constructed and designed for easy integration to operate the Yetter 2940 Air Adjust System. The ability of the air adjustments allows the operator to adjust the row cleaner precisely on the move without leaving the tractor cab resulting in more acres planted. The precise adjustments give the row units and planter a more even, smoother ride leading to more accurate seed placement and seed depth resulting in a more uniform emergence. IT IS NOT RECOMMENDED TO PLUMB ANY OTHER PNEUMATICALLY OPERATED SYSTEMS TO USE THE 2940 YETTER ELECTRIC COMPRESSOR AS ITS AIR SOURCE.

SYSTEM REQUIREMENTS

POWER SUPPLY

The compressor and the VDM (Valve Drive Module) each use 12V from the battery. The 2940-100 Cab Controller uses a switched power source. The 2940-153 will need connected to a switched power source. (Connector to the tractor not included)

A CIGARETTE LIGHTER OUTLET ISN’T A SWITCHED POWER SOURCE AND THEREFORE SHOULD NOT BE USED.

SWITCHED POWER SOURCE CONNECTOR PART #’S:
JOHN DEERE P/N: RE67013
CNH P/N: 187103A1
CAT P/N: AG233356

FUSE PROTECTION

To protect the compressor assembly & VDM from damage always ensure the integrity of the integrated 40 amp and 80 amp circuit breaker at the tractor battery where cable connects to the battery in case of short or over-circuit. When connected correctly, the tractor has a fuse to protect the cab controller located in the tractor’s fuse panel. NEVER MOUNT THE COMPRESSOR ASSEMBLY MORE THAN 50 FEET FROM THE BATTERY USING THE PROVIDED MAIN POWER CABLES. THIS WILL WEAKEN THE 80AMP BREAKER TO THE POINT OF FAILURE. IF MORE THAN 50 FEET IS NEEDED, BUILD POWER CABLE(S) TO LENGTH USING 00 GAUGE CABLE!

AIR COMPRESSOR MAINTENANCE

To prolong life expectancy of the compressor, clean the filter on a regular basis by removing the element from the housing, tapping it on a hard surface, exposed side down. This will empty the pleats of the filter of collected dust. If the dust has been wet or will not clean out, call Yetter to order a new element, part number 2940-395. You may lightly blow out the interior of the upper housing using an air tool. The housing and filter should be checked every two days of field operation, or more if conditions are very dusty. See pages 71 for further maintenance.

CONNECTIONS

MAKE SURE TO LINE UP TABS WHEN PLUGGING IN CONNECTORS

FAILURE TO LINE UP TABS WHEN PLUGGING MALE INTO FEMALE CONNECTORS CAN RESULT IN SHORT CIRCUIT. ALSO CHECK TAB AND SLOT SIZES, PLUGGING CONNECTORS IN BACKWARDS WILL RESULT IN FAULTY SYSTEM!!
The 2940 Air Adjust Residue Manager control system consists of five primary components and kits. These parts include; Residue Manager (RM) or Residue Manager Coulter Combo Kit, Cab Controller, the Yetter Electric Air Compressor Assembly, Compressor Mounting Kit and the necessary Wires, Air Lines, and Fittings Kit.

**Residue Manager**

Each of these kits will include the required brackets, wheel assemblies, & mounting hardware for installation to the row unit.

**RM/Coulter Combo**

**Cab Controller**

The Cab Controller will use the RAM mount provided for installation in cab. Hold the POWER button to turn the cab controller on and press ENTER to activate the system. Make adjustments quickly and accurately during planting with the cab controller. Adjust up & down pressure to create the ideal “ride” or floating position for residue managers. Lift & down pressure settings can be adjusted independently. Down pressure can be increased to fix row cleaner in the rigid position. Five presets can be programmed within the controller for quick changes. Residue Managers can be raised as needed with a push of the Roman numeral I up button.

**Serial Number**

There are 2 serial numbers to identify production dates & software.

- **Cab Controller Serial Number**
- **VDM Serial Number**
Air Compressor Assembly

2940 Air Adjust requires a stable air supply source that can provide a minimum 95psi of clean, dry air. The ‘clean, dry air’ is a key component of the air supply, moisture within the air supply can shorten the life-cycle of the system. Another key component is having a leak free system to reduce the duty cycle and compressor hours, extending the service life.

2940-101 External Lay Out

A. **LATCHES** (2940-307) for closing the air compressor housing lid

B. **WHEEL TRACK DOWN PRESSURE PORT** - Route black airline from the WT port to the inlet of the down pressure dump valve on the center/wheel track rows of the planter. The down pressure psi on the center RM or RM/Coulter Combos can be adjusted separately from the wing/side section RM or RM/Coulter Combos down pressure psi. If the WT port is not used, install the 2940-352 plug to prevent air loss

C. **RESIDUE DOWN PRESSURE PORT** - Route black airline from the RD port to the inlet of each down pressure dump valve on the wing/side sections of the planter. This port dispenses down pressure to the RM or RM/Coulter Combos on the wing/side RM or RM/Coulter Combos as commanded from the cab controller.

D. **RESIDUE UP PRESSURE PORT** - Route blue airline from the RU port to the inlet port of the up pressure dump valves on each section (wing/side sections and center/wheel track sections) of the planter. This port dispenses up pressure to each RM or RM/Coulter Combos on the planter.
2940-101 External Lay Out

MAIN POWER CONNECTOR-
ATTACH THE 2940-150 TO THE
BATTERY & ROUTE THE MAIN
POWER EXTENSIONS (2940-151
OR 2940-163) FROM THE 2940-
150 TO THIS CONNECTOR

INPUT ELBOW-AIRLINE
PLUGS IN HERE FROM
BOTTOM OF THE
TANK

WATER SEPARATOR
ASSEMBLY (2940-438)

1/4" OD AIRLINE ROUTES
FROM THIS PTC ELBOW TO
THE WATER SEPARATOR
DUMP VALVE INSIDE THE
HOUSING

1/4" OD AIRLINE ROUTES
FROM WATER SEPARATOR
DUMP VALVE TO HERE

BOTTOM OF COMPRESSOR HOUSING

12 PIN DEUTSCH CONNECTOR (GRAY)-
CONNECT THE 2940-162 DUMP VALVE
CABLE AND ROUTE TO THE DUMP
VALVES VIA COLOR CODED (WHITE
CABLES FOR UP PRESSURE DUMP
VALVES AND BLACK CABLES FOR
DOWN PRESSURE DUMP VALVES)
DUMP VALVE EXTENSIONS AND "Y"
HARNESSES. (MAKE SURE TABS OF
MALE END LINE UP WITH SLOTS IN
FEMALE END)

12 PIN DEUTSCH CONNECTOR
(BLACK)-DEPENDING ON
APPLICATION, CONNECT THE
2940-164 OR 2940-165 CAN
AUX CABLE AND ROUTE TO
REAR OF TRACTOR. (MAKE
SURE TABS OF MALE END
LINE UP WITH SLOTS IN
FEMALE END)
A. 2940-390 Air Compressor
B. 2940-395 Filter 2940-396 Pre-Cleaner Element
C. 2940-391 Relay
D. 2940-398 SS Braided Compressor Line
E. 2940-392 Check Valve
F. 2940-433 Compressor Manifold Inlet Assembly
G. 2940-416 Safety Relief Valve
H. 2940-435 High Pressure Relief Line
I. 2940-393 Compressor Pressure Switch
J. 2940-143 Lid
K. 2940-336 Head Pressure Relief Dump Valve
L. 2940-336 Water Separator Valve
A. 2940-402  PQE  
B. 2940-433  Manifold Inlet Assembly  
C. 2940-441  Pressure Transducer  
D. 2940-420  Regulator  
E. No Part #  Power Indicator  
F. No Part #  Communication Indicator  
G. No Part #  System Fault Indicator  
H. 2940-139  Pressure on Valve  
I. 2940-112  VDM  
J. 2940-521  J1 Port-Compressor/Transducer/Valve Control Harness  
K. 2940-522  J2 Port-Dump Valve Control Harness  
L. 2940-524  J3 Port-PQE Control Harness  
M. No Part #  J4 Port-PQE 2 Control Port  
N. 2940-523  J5 Port-VDM Power Harness  
O. 2940-523  J6 Port- Communication Control Harness
12V-DC cables will be used to power the Compressor, VDM, Cab Controller, and Dump Valves. Flexible tubing will be used to move air from the external ports of the PQE to each air bag. Each kit will include pneumatic lines for both circuits, down and lift, as well as the fittings to make connections and cable ties to securely fasten the lines to the planter. Note: All 2940 Air Adjust kit include a tubing cutter within the kit.

The 2940-341 tubing cutter should be used for every cut to ensure a clean, square cut.
2940 Air Adjust Installation Guide Outline

STEP 1: RESIDUE MANAGER (RM) OR RM/COULTER COMBO INSTALLATION
Residue Manager Only: Install the RM Assembly securing with mounting hardware. When installing wheel mount assembly on the adjustment tube of the RM Assembly, place the top hole of the wheel mount to the 4th or 5th hole from the top of the adjustment tube for conventional tillage or mellow soils, 5th or 6th hole from the top for no/minimum till conditions. Install wheels on wheel mounts using hardware from the 2966-119 bolt bag. Install the RM wheels so that the left wheel leads, right wheel trails on the left side of the planter & the right wheel leads, left wheel trails on the right side.

RM/ Coulter Combo: Install the RM/Coultor Combo assembly using hardware from the 2940-128 bolt bag. Mount the coulter blade on the coulter arm hub & mount the RM wheels using the 5/8 Whiz Lock Nuts. RM wheels on combo units will install in the rear holes on both sides on all rows. It is recommended to set the coulter blade equal to or above seed depth. Refer to the diagrams on pages 17 - 21

STEP 2: INSTALLING 2940-100 CAB CONTROLLER
Mount the 2940-100 Cab Controller & 2940-113 RAM Mount in the tractor cab. Position the Cab Controller within reach during operation without compromising safety or visibility from the cab. Connect the 2940-152 harness to the female 6 pin connector on the back of the cab controller & route the black CAN connector towards the hitch of the tractor. Connect the 2940-153 2 pin connector to the female 2 pin connector on the back cab controller. Splice the red & black wires to the appropriate connector to fit the tractor’s switched power source. Refer to the diagram on page 22

STEP 3: INSTALLING COMPRESSOR ASSEMBLY
Begin by locating a suitable mounting location for the compressor assembly. Placement of the compressor assembly will vary on the make and model of the planter. Use mounts supplied or depending on application, different mounts may need to be built. NOTE: Be sure to check clearance of compressor assembly in all locations, especially noting tractor tires during turns, folding/unfolding the planter for transport mode, markers, and 2-point top link. Refer to the diagram on pages 23 - 24

STEP 4: COMPRESSOR POWER SUPPLY CABLES AND HARNESS INSTALLATION
Install the 2940-150 main power cable with 80 amp breaker AND 2940-166 VDM power with 40 amp breaker on the correct battery terminals (red is positive & black is negative ). Next, connect the appropriate length of main power extensions (2940-151 or 2940-163) off of the 2940-150, route the main power extensions to large Anderson power connector coming out of the bottom of the 2940-101 compressor assembly housing, & install. Install the appropriate length VDM power extension (2940-167 or 2940-168) off of the 2940-166, route to the hitch of the tractor to install into the matching connector on the CAN AUX to Air Harness. Lastly, install the CAN AUX to Air Harness, 2940-164 or 2940-165. The smaller Anderson power connector will connect to the VDM power extension, the black CAN connector connects to the other black CAN connector that routes to the cab controller, & the black male 12 pin Deutsch connector connects to the black female end on the bottom of the compressor assembly housing. 2940-170, 2940-171, or 2940-430 CAN AUX to Air Extensions may be necessary if the compressor is mounted further back on the planter than the hitch. The compressor must be mounted using 50 feet or less of main power cable extensions from the operating tractor’s battery. If over 50 feet, heavier gauge power cables (00) must be built or purchased in the correct length. Refer to the diagram on page 25

STEP 5: DUMP VALVE & DUMP VALVE HARNESS INSTALLATION
Install the dump valves (DV) to the planter as shown in the diagram that matches your planter. 16 row planters and less will have 1 up pressure & 1 down pressure DV on the middle of each wing/side & 1 up pressure & 1 down pressure DV on the wheel track (WT) or center rows. 24 row planters & larger will have 3 DVS per wing/side; 2 down pressure & 1 up pressure, & 2 DVS on the WT rows, 1 up pressure & 1 down pressure. Install the gray male 12 pin Deutsch connector of the 2940-162 into the gray female 12 pin Deutsch on the bottom side of the compressor assembly housing. The 2940-162 will have 4) 2 pin pig tails. The connector labeled RM Up Dump (yellow/black wires) will connect to all up pressure DVs using 2940-155 (30ft), 2940-157 (15ft), & 2940-160 (5ft) white DV harnesses. Use 2940-159 white Y harnesses to connect all white DV cables together. The connector labeled RM Down Dump (orange/black wires) will connect to all down pressure DVs using 2940-154 (30ft), 2940-156 (15ft), & 2940-161 (5ft) black dump valve harnesses. Use 2940-158 black Y harnesses to connect all black DV cables together. Connectors labeled AUX 3 & AUX 4 will NOT be used! Refer to pages 26 - 61

STEP 6: PLUMBING AIRLINES
A group of airlines that route to the residue manager air bags are referred to as trunk airlines. The airline routing from the RU, RD, & WT to the inlet of the DV for the matching circuit is referred to as a supply airline. Start by routing the trunk airlines: route black (down pressure) & blue (up pressure) airline on each wing/side of the planter. If installing on a split row planter, keep the airline on the front rank residue managers on each wing plumbed separate from the back rank. When plumbing in the WT (wheel track) rows, use the center 4 or 6 rows that plant over the tractor & planter wheel tracks. If equipping on a narrow transport planter with 4 center rows & 6 rows are desired on the WT circuit, tie in the 1 row on each wing/side of the planter closest to the first & last center row. Use supplied tees to make enough open ports in each circuit to install supply airline to the inlet port of each DV of the matching circuit. Also use tees to connect the outlet port of the DVs to the matching circuits of the trunk airlines. On split row planters, a ball valve will be used to shut air off to bean rows when planting corn. Refer to the diagrams on pages 27 - 63

STEP 7: PERFORM A PRE-OPERATION TEST OF THE SYSTEM
Now that the system is installed, perform a pre-operation test. Start by folding/unfolding & lowering/raising the planter to check for enough slack in airline & in harnesses at hinge points. Check all electrical connections, cables, & airline making sure nothing was damaged. Next, turn on the cab controller by holding the power button. After the cab controller is on, turn all pressures (RU, RD, and WT) to 0 psi & press ENTER to activate the system. The compressor will turn on, build to 95 psi & turn off. Check the interior of the compressor housing (PQE, Pressure on Valve, & airline within the housing) for leaks. Apply 30 psi to the RU port & watch your row cleaners as they should all rise to maximum up travel. Check for leaks on all up pressure circuits & fittings. When that leak check is finished, turn RU to 0 psi & turn RD & WT to 30. Check all down pressure airline & fittings in these circuits for leaks & repair as needed. Refer to page 68 - 70
Residue Manager(RM) Installation

ENGAGE THE CYLINDER STOPS ON THE PLANTER LIFT WHEELS TO “LOCK” THE PLANTER IN THE UP POSITION

Installation overview:
- Prior to installation of each RM mounting bracket assembly, check the freedom of motion of the parallel linkage or pivot arm.
- The installation process should be done with the planter raised, half folded for transport, & the row units fully extended down.
- Install the 2940 RM or RM/Coulter Combo mounting bracket assembly centered & level side to side on each planter row unit.
- If planter manufacturer is John Deere & equipped with HD scrapers on the True V opener blades, a 2940-049 kit will need installed to space the RM or RM/Coulter Combo mounting bracket assembly out to avoid interference. (See page 75)

For John Deere, Kinze, & White Models Installing RM Only

**Step 1:** Place 1) Pneumatic RM Assembly, 1) Mounting Hardware Bolt Bag (2940-142), 1) Wheel Mount Weld Assembly (2940-215 or 2940-216), 1) RH Wheel Assembly (2966-140), 1) LH Wheel Assembly (2966-141), & 1) Wheel Mount Bolt Bag (2966-119) at each planter row unit. Install the Pneumatic RM assembly using 3) ½” X 1-1/2” GR5 bolts, 6) ½” flat washers, & 3) ½” lock nuts. Use the diagram below for hole alignment, as well as direction of the mounting bolts. Tighten the hardware.

**Tools needed are ¾ socket, ¾ wrench, impact, & 10” extension.**

**NOTE: AGCO 9000 units will use ½” x 2” mounting bolts!**
For Case Models Installing RM Only

Step 1: Place 1) Pneumatic RM Assembly, 1) CNH Adaptor Bracket (2940-209), 1) CNH Mounting Bolt Bag (2940-145), 1) Wheel Mount (2940-215/2940-216), 1) RH Wheel Assembly (2966-140), 1) LH Wheel Assembly (2966-141), & 1) Wheel Mount Bolt Bag (2966-119) at each row unit. Mount the Pneumatic RM assembly to the 2940-209 using 3) ½” X 1-1/2” GR5 bolts, 3) ½” flat washers, & 3) ½” lock nuts. Mount this assembly to the row unit attachment casting using 2) ½” X 3-3/4” bolts & 2) ½” lock nuts. Install the 2) upstop casting pieces to each upper parallel arm using 3/8 X 1 ¼ bolts & 3/8 lock nuts. Note the direction of the mounting bolt. Tools needed are ¾ socket, 9/16 socket, ¼ wrench, 9/16 wrench, impact, & 10” extension.

Step 2: Install 1) 2940-380 3/8” PTC X 1/8” BSPP male fitting to each air bag using an 11/16 wrench. Do not over tighten.
Step 3: Mount the 2940-215 or 2940-216 wheel mount on the adjustment tube of the mounting bracket assembly. Recommended mounting location is 5th hole down from the top of the adjustment tube mounts to the top hole of the wheel mount. Adjustments may need to be made depending on tillage practice, soil conditions, and/or residue thickness. **Tools needed are a 9/16 socket, 9/16 wrench, impact, and a 10” extension.**

![Diagram showing 3/8” LOCK HEX NUT and 3/8”-16X3 BOLT GR5](image)

Step 4: Mount the RM wheels on the wheel mount using 2) 5/8” lock washers & 2) 5/8 hex nut. Mount the wheels so the left side of the planter has the left wheel leading, right wheel trailing & the right side of the planter has the right wheel leading, left wheel trailing. Right & left is determined by standing behind the planter looking at the tractor or sitting in the tractor facing forward. Diagram below is proper installation for the right side of the planter. **Tighten using a 15/16 wrench. (Ratcheting wrench if available)**  
**Note: Properly install row cleaner wheels so that wheel teeth curve back when entering field debris.**

![Diagram showing SHIELD, TORQUE AT 170 FT/LBS, RIGHT HAND WHEEL ASSEMBLY, LEFT HAND WHEEL ASSEMBLY, 5/8 - 11 HEX NUT, 5/8 LOCK WASHER](image)

**WARNING:** It is highly recommended to wear gloves & use caution when tightening wheels!
**RM/Coulter Combo Installation**

**Step 1:** Place 1) RM/ Coulter Combo assembly, 1) Coulter Blade, 1) Mounting Bolt Bag (2940-128), 1) RH wheel assembly (2966-116), & 1) LH wheel assembly (2966-117) at each row unit. Mount the RM/Coulter Combo assembly to the row unit face plate using 3) ½" X 1 ½" bolts and 3) ½" lock nuts. See the diagrams below for bolt alignment and bolt direction. Tighten hardware. **Tools needed are ¾ socket, ¾ wrench, impact, & 10” extension.**

**Step 2:** Install coulter blade using 4) ½"X1 ¼" bolts & 4) ½" lock nuts using a ¾ socket, ¾ wrench, impact, & 10” extension.

**NOTE:** Adjust coulter blade depth equal to or above the planter opener blades. Adjust the blade depth as required for blade wear. Planter double disc blades that are worn to 14 ¼” or smaller in diameter should be replaced. Example: 14 ¼” blades will have a 3/8” shallower planting depth than 15” blades at the same gauge wheel adjustment setting.

**STEP 3:** Install each of the RM wheels in the rear D-bolt holes using a 5/8 serrated flange nuts & tighten using a 15/16 wrench.

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**It is highly recommended to wear gloves & use caution when tightening wheels!**
Step 1: Begin installing the 2940 Air Adjust cab controller once an adequate mounting location has been found. Fix the base component of the 2940-113 Mounting Bracket in place. Use items labeled B if mounting to a slotted, flat mounting system using a ratchet, 11mm socket, & 11mm wrench to tighten the hardware. Use items C if using a tubular mounting system. 2 different sized U-bolts are provided for tubular mounting systems. Use a ratchet & 5mm socket to tighten the hardware.

Step 2: Connect the mount bracket to the rear of the controller using 4) M5 Hex Nut and 4) M5 split washers (labeled A) using a ratchet & 8mm socket to tighten the hardware. Set the cab controller in place and tighten the clamp by turning the handle clockwise.

Step 3: Attach the male 2 pin connector of the 2940-153 to the female 2 pin connector on the 2940-100 Cab Controller. Install the connector not provided for your tractor at the bare end of the 2940-153 and connect to tractors switched power source. The cigarette outlet is NOT a switched port on all models of tractors, and therefore should not be used.

Step 4: Route & install the 2940-152 hitch to switch panel wire harness from the rear 6 pin connector of the 2940-100 Cab Controller to the hitch-point at the rear of the tractor. The black CAN connector of the 2940-152 will connect to the 2940-164 or 2940-165 CAN AUX to Air Harness. (See page 25 for further details) If an extension is needed between the 2940-100 Cab Controller and this harness, a 2940-169 10ft cab to hitch extension is available to order.
INSTALLING 2940 AIR COMPRESSOR ASSEMBLY

**Step 1:** Every planter/tractor combination will contain its own unique situations in regard to mounting the 2940 Compressor Assembly for clearance and accessibility. **YOU SHOULD EXERCISE YOUR OWN BEST JUDGEMENT TO FIT YOUR SITUATION.** Begin by locating a suitable mounting location for the compressor assembly. Placement of the compressor assembly will vary on the make and model of the planter. Use mounts supplied or depending on application different mounts may need to be built. NOTE: Be sure to check clearance of compressor assembly in all locations, especially noting tractor tires and folding/unfolding the planter for transport mode, markers, and 2-point top link.

**Step 2:** Visually inspect the proposed mounting location for structural stability and to find signs of wear in that location. Possible obstructions to be aware of include marker arms, liquid fertilizer tanks, rear tires (duals especially) during tight turns, 2 point top link, etc…

**Step 3:** Mark out the position of the Compressor then complete a cycle of folding/unfolding to transport mode and raising/lowering of the planter; as well as, driving in a tight circle in one or both directions, in planting position, to verify or identify obstructions.

**Step 4:** Once the compressor is mounted, repeat the previous process very cautiously to once again verify that the compressor is clear of obstructions.

Use the illustration with dimensions to identify possible mounting locations on your specific planter. The 2940-101 require 4” of clearance from each side. (top, bottom, front, back, both sides)

Always mount the compressor in the vertical position, housing above the tank.
2940 Electric Compressor Installation

2940-085 2 point or universal compressor mount kit

2940-085 mounting kit is designed for mounting to the 2 point cross hitch on the planter, or require greater elevation of the compressor for clearance reasons. This mounting kit can be used in other locations but different sized bolts may be needed.

The most common mounting location for larger planters will be on the draft bar. Use the 2940-086 mounting kit for situations that require mounting elsewhere on the planter than the hitch. This will allow the compressor to be elevated and set back (or forward) to avoid clearance issue. This mounting kit can be used in other locations but different sized bolts may be needed.

Refer to pages 86 for Part Identification.

In some situations, mounting brackets may need to be built to fit your planters set-up.
Compressor Power Cable and Harness Installation

**Step 1:** Install the 2940-150 main power cable with 80A breaker and the 2940-166 VDM power cable with 40A breaker on the operating tractor’s battery. Red cable installs on the positive (+) battery terminal post and the black cable installs on the negative (-) battery terminal post.

**Step 2:** From the open 2 pole Anderson connector of the 2940-150, safely route & install the appropriate length of main power extension cables, 2940-151 is a 10ft main power extension & 2940-163 is a 20ft main power extension, into the Anderson connector that comes out of the bottom of the compressor housing. If operating tractor is articulating or if compressor is further back on the planter than the hitch, more extension cables may be needed. **Cable length from the battery to the compressor should not exceed 50 feet. Longer than 50 feet distances cause the 80A breaker to become weak and trip often. If distance is greater than 50 feet, heavier cable needs made using 00 gauge wire.**

**Step 3:** From the open 2 pole Anderson connector of the 2940-166, safely route & install the appropriate length of VDM power extension cables, 2940-167 is a 10ft VDM power extension & 2940-168 is a 20ft VDM power extension, to the hitch of the tractor. At the hitch of the tractor, place the open 2 pole Anderson connector next to the black CAN connector that routes to the cab controller as these will be the disconnecting points when unhooking the planter from the tractor.

**Step 4:** Install the 2940-164 5ft CAN AUX to Air harness or 2940-165 10ft CAN AUX to Air harness. The black CAN connector connects to the other black CAN connector that comes from the cab controller. The small Anderson connector connects to the VDM power extension that routes to the battery. The male black 12 pin Deutsch connector installs into the black female 12 pin Deutsch connector located on the bottom of the compressor housing. If the compressor assembly is located further back on the planter than the hitch, CAN AUX to Air extension harnessing may need to be purchased. 2940-170 is 10ft extension, 2940-171 is 30ft extension, & 2940-430 is a 20ft extension.
2940 -136 Dump Valve Kit Installation

**Step 1** - Align the holes on valve (8) with mounting plate (3) holes. Insert bolts (5) through the aligned holes and start the nuts (4) on the threads. Tighten nut with ¼" wrench while holding bolt with a Phillips screwdriver until tight.

**Step 2** - Install supplied 6” piece of airline (6) in port 1, the vent elbow (7).

**Step 3** - If install is on a John Deere planter, use flat flanged nut (1) to install Dump Valve assembly by placing circle cut out on mounting tab (3) on U-bolt used to mount the row unit to planter toolbar. Pinch mounting tab (3) between existing nut on U-bolt & the flat flanged nut (1). If install is on any other OEM planter, use the serrated flanged nut (2) for the install of the dump valves.

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**Solenoid Down**

PORT 3. OUTLET FROM THE CONTROL BOX

PORT 1. VENT

**Solenoid Up**

PORT 2. OUTLET TO THE ROW CLEANERS

PORT 1. VENT

PORT 3. INLET FROM THE CONTROL BOX

**Single Dump Valve Mounting**

**Dual Dump Valve Mounting**

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*See pages 28 – 61 for dump valve & dump valve harness installation. Dump valve placement will vary depending on planter size. Dump valve cable length will vary depending on planter model & row spacing. White dump valve cables are to be used on all lift circuit (blue airline) dump valves. Black dump valve cables are to be used on all down pressure (black airline) dump valves.*
Airline Routing-Planter Frame

Below is a suggested method for safely & securely routing the airlines on the planter frame whether installing trunk airlines (airlines routing to the row cleaner air bags) or supply airlines (airlines that route from the compressor housing to the dump valve’s inlet port). Safely route the airlines on the frame that the row units are mounted to or follow the path to which the hydraulic hoses on the planter are routed. After airline & dump valve harnessing is complete, use provided zip ties to keep parts away from pinch & wear points.

Airline Routing-Row Unit

Below is a suggested method for safely and securely routing the airlines from the air bag to the tees on the planter frame. These are generalizations and **YOU SHOULD USE YOUR OWN BEST JUDGEMENT** in routing airlines. DO NOT pass the airlines between the rear of the parallel arm & the row unit. DO NOT pass airlines between the frame & the head plate used to mount the row unit to the planter frame. These can act as both a pinch points & wear points. If necessary, use provided zip ties to keep airlines away from pinch & wear points & sharp or rotating objects that may damage the airline.

Specific airline routing will be dependent upon: Row unit make & model (AGCO, CNH, JD, Kinze, etc), row unit spacing (15", 20", 22", 30", 36", etc), parallel arm length, & other variables. RM units will have 1 up pressure & 1 down pressure air bag & RM/Coulter Combo models will have 2 air bags on the bottom of the bracket for up pressure & a single air bag on top is for down pressure. The 2 up pressure air bags will have airline already tee’d together so the lift pressure trunk airlines will need plumbed to that tee.

**Airline Routing**

The following pages are dump valve & airline diagrams of different planter models. Dump valve cable length may vary from the directions given. For example, a 24 row planter on 30 inch centers will have different length dump valve cables than a 24 row planter on 20 inch centers. The wiring & tubing kit will have everything needed to complete the installation.

Direction of flow is: Supply Tank → Water Separator Assembly → Control Box → Dump Valves → Air Bags. All airlines will be 3/8". Blue airline should be used on all lift pressure (smaller) air bags & black airline should be used on all down pressure (larger) air bags. Use the airline colors to differentiate the lift pressure (Blue Airline) and down pressure (Black Airline) on the planter for troubleshooting, leak detection, & dump valve circuit indication. Route the airlines as efficiently and conveniently as possible.

*If there is no diagram for your situation, contact a Yetter service representative (800-447-5777) & a drawing will be made.*
6 Row Dump Valve Diagram

**KEY**
- ■ = Dump Valve
- □ = Planter Row Unit
- Y = Y Harness

**Down Pressure Dump Valve**

<table>
<thead>
<tr>
<th>Row</th>
<th>Routes to the 2 pin pigtail labeled RM DOWN DUMP</th>
</tr>
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<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>3</td>
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<td>4</td>
<td>□</td>
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<tr>
<td>5</td>
<td>□</td>
</tr>
<tr>
<td>6</td>
<td>□</td>
</tr>
</tbody>
</table>

**Step 1:** Install 1 dump valve on row 3 & 1 dump valve on row 4.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the **GRAY** female connector on the side of the 2940-101 compressor housing.

**Step 3:** Install the mating 2 pin connector of the 2940-156 black dump valve cable to the dump valve on row 3 & route the other end of the 2940-156 to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 from step 2 & install.

**Step 4:** Install the mating 2 pin connector of the 2940-157 white dump valve cable to the dump valve on row 4 & route the other end of the 2940-157 to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2 & install.

📞 Aux 3 & Aux 4 on 2940-162 are not yet used📞
6 Row Airline Diagram

Step 1: T1 & T2 Route blue & black airline from row 1 to row 6. Install the black airline in the down pressure (larger) air bag & the blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees in each (blue & black) airline at each row unit. From each tee in the up pressure (blue airline) circuit, route blue airline to the up pressure air bag and install in the fitting. From each tee in the down pressure (black airline) circuit, route black airline to the down pressure air bag and install in the fitting. When back to row 1, cut each airline to length & install each airline into the matching air bag.

Step 2: On row 3 at the down pressure dump valve, install a tee in the black airline installed in step 1. Install black airline from the open port on the tee to the outlet port on the dump valve.

Step 3: On row 4 at the up pressure dump valve, install a tee in the blue airline installed in step 1. Install blue airline from the open port on the tee to the outlet port of the dump valve.

Step 4: S1 Route black airline from the RD port on the 2940-101 compressor housing to the inlet port on the down pressure dump valve on row 3.

Step 5: S2 Route blue airline from the RU port on the 2940-101 compressor housing to the inlet port of the up pressure dump valve on row 4.

Step 6: Install a plug (2940-352) into the WT port on the 2940-101 compressor housing to prevent air loss. Another way to do this is to cut a 6 inch piece of black airline, install one end into the WT port, fold the airline over causing a kink, & zip tie the airline to stay like this. This circuit will not be used with this size of planter.

KEY
■ = Dump Valve
□ = Planter Row Unit
T1-2 = Trunk Line
S1-2 = Supply Line

OUTLET TO ROW CLEANERS

EXHAUST — INLET

OUTLET TO ROW CLEANERS

EXHAUST — INLET
**6/11 or 6/12 Split Row Dump Valve Diagram**

**KEY**
- ■ = Dump Valve
- ■ = Planter Row Unit
- Y = Y Harness

**Down Pressure Dump Valve**

Row 1
Row 2
Row 3
Row 4
Row 5
Row 6
Row 7
Row 8
Row 9
Row 10
Row 11
Row 12

**Up Pressure Dump Valve**

Row 1
Row 2
Row 3
Row 4
Row 5
Row 6
Row 7
Row 8
Row 9
Row 10
Row 11
Row 12

**Step 1:** Install 2 dump valves on row 3 and 2 dump valves on row 9.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** Route & install 15 foot length of black dump valve cable (2940-158) from the 2 pin connector of 1 dump valve on row 3 to 1 dump valve on row 9. Use a black “Y” harness (2940-158) to connect the down pressure dump valve on row 9 to the 15 foot black dump valve cable routed from row 3’s down pressure dump valve. From the remaining open connector on the black “Y” harness, route the necessary length of black dump valve cable to reach the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 harness installed in step 2.

**Step 4:** Route & install 15 foot length of white dump valve cable (2940-157) from the open 2 pin connector of the up pressure dump valve on row 3 to the up pressure dump valve on row 9. Use a white “Y” harness (2940-159) to connect the up pressure dump valve on row 9 to the 15 foot white dump valve cable routed from row 3. From the remaining open connector on the white “Y” harness, route the necessary length of white dump valve cable to reach the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 harness installed in step 2.

*Aux 3 & Aux 4 on 2940-162 are not yet used.*
6/11 or 6/12 Split Row Airline Diagram

**KEY**

- = Dump Valve

◇ = Ball Valve

□ = Planter Row Unit

S1-2 = Supply Airline

T1-4 = Trunk Airline

**Step 1:** T1 & T2 Route black & blue airline from the first corn row to the last corn row. Install the black airline in the fitting of the down pressure (larger) air bag & the blue airline in the fitting of the up pressure (smaller) air bag on the last corn row. Trace both airlines back to the first corn row installing tees in each airline at each corn row. Route & install blue airline from the up pressure air bag fitting to the tee in the up pressure (blue) circuit for that corn row. Route & install black airline from the down pressure air bag fitting to the tee in the down pressure (black) circuit for that corn row. When back to the first corn row, cut each airline to length & install each airline into the fitting of the matching air bag.

**Step 2:** S1 At the down pressure dump valve on corn rows 2 & 5, cut & install a tee into the T1 airline installed in step 1. Route & install black airline from the remaining open port in the tee to the outlet port of the down pressure dump valve & install. Route & install black airline from the RD port on the 2940-101 compressor housing to the nearest point on the frame that the seed units are mounted to and install a tee. Route and install black airline from each side of the tee to the inlet port of the dump valve on corn rows 2 & 5.

**Step 3:** S2 At the up pressure dump valve on corn rows 2 & 5, cut & install a tee into the T2 airline installed in step 1. Route blue airline from the remaining open port in each tee to the outlet port of the dump valve & install. Route & install blue airline from the RU port on the 2940-101 compressor housing to the nearest point on the frame that the seed units are mounted to & install a tee. Route & install blue airline from each side of the tee to the inlet port of the dump valve on corn rows 2 & 5.

**Step 4:** T3 & T4 Route black & blue airline from the first split row to the last split row. Install the black airline in the fitting of the down pressure (larger) air bag & the blue airline in the fitting of the up pressure (smaller) air bag on the last split row. Trace both airlines back to the first split row installing tees in each airline at each split row. Route & install blue airline from the up pressure air bag fitting to the tee in the up pressure (blue) circuit for that split row. Route & install black airline from the down pressure air bag fitting to the tee in the down pressure (black) circuit for that split row. When back to the first split row, cut each airline to length & install each airline into the fitting of the matching air bag.

**Step 5:** A1 At the down pressure dump valve on corn rows 2 & 5, cut & install a tee into the T3 airline installed in step 4. At the up pressure dump valve on corn rows 2 & 5, cut & install a tee into the T4 airline installed in step 4.

**Step 6:** A1 Install a tee just downstream of the outlet port on the down pressure dump valve on corn rows 2 & 5. Install a 6 inch piece of black airline in the remaining port of each tee. Install a ball valve (2940-342) on the open end of each 6" piece of black airline. Route & install black airline from the open port on each ball valve to each tee in the T3 airline installed in step 5.

**Step 7:** A1 Install a tee just downstream of the outlet port on the up pressure dump valve on corn rows 2 & 5. Install a 6 inch piece of blue airline in the remaining port of each tee. Install a ball valve on the open end of each 6" piece of blue airline. Route & install blue airline from the open port on each ball valve to each tee in the T4 airline installed in step 5.

**Step 8:** A1 Install a plug (2940-352) provided in the spare fittings bag (2940-174) in the WT port on the 2940-101 compressor housing.
8 Row Dump Valve Diagram

**KEY**
- ■ = Dump Valve
- □ = Planter Row Unit
- Y = Y Harness

**Down Pressure Dump Valve**

<table>
<thead>
<tr>
<th>Row</th>
<th>1</th>
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<tbody>
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**Up Pressure Dump Valve**

<table>
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<th>Row</th>
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<th>Routes to the 2 pin pigtail labeled RM UP DUMP</th>
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**Step 1:** Install 1 dump valve on row 4 & 1 dump valve on row 5.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the **GRAY** female connector on the 2940-101 compressor housing.

**Step 3:** Install the mating 2 pin connector of the 2940-156 black dump valve cable to the dump valve on row 5. Route the other end of the 2940-156 to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 from step 2 & install.

**Step 4:** Install the mating 2 pin connector of the 2940-157 white dump valve cable to the dump valve on row 4. Route the other end of the 2940-157 to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2 & install.

🌟 Aux 3 & Aux 4 on 2940-162 are not yet used 🌟
8 Row Airline Diagram

**Step 1:** T1 & T2 Route blue & black airline from row 1 to row 8. Install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees in each (blue and black) airline at each row unit. From each tee in the up pressure (blue airline) circuit, route blue airline to the up pressure air bag and install in the fitting. From each tee in the down pressure (black airline) circuit, route black airline to the down pressure bag and install in the fitting. When back to row 1, cut each airline to length and install each airline to the matching air bag.

**Step 2:** On row 5 at the down pressure dump valve, install a tee in the black airline installed in step 1. Install black airline from the open port on the tee to the outlet port on the dump valve.

**Step 3:** On row 4 at the up pressure dump valve, install a tee in the blue airline installed in step 1. Install blue airline from the open port on the tee to the outlet port on the dump valve.

**Step 4:** S1 Route black airline from the RD port on the 2940-101 compressor housing to the inlet port on the down pressure dump valve on row 5 & install.

**Step 5:** S2 Route blue airline from the RU port on the 2940-101 compressor housing to the inlet port on the up pressure dump valve or row 4 & install.

**Step 6:** Install a plug (2940-352) into the WT port on the 2940-101 compressor housing to prevent air loss. Another way to do this is to cut a 6inch piece of black airline, install one end into the WT port, fold the airline over causing a kink, & zip tie the airline to stay like this. This circuit will not be used with this size of planter.

---

**OUTLET TO ROW CLEANERS**

**INLET**

**EXHAUST**

**KEY**

■ = Dump Valve

☐ = Planter Row Unit

T1-2 = Trunk Line

S1-2 = Supply Line

---

**OUTLET TO ROW CLEANERS**

**INLET**

**EXHAUST**
**8/15 or 8/16 Split Row Dump Valve Diagram**

**KEY**

- = Dump Valve

□ = Planter Row Unit

Y = Y Harness

---

**Step 1:** Install 2 dump valves on each of the following rows: 5 & 11.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** Route & install 15 foot length of black dump valve cable (2940-156) from the 2 pin connector of 1 dump valve on row 5 to 1 dump valve on row 11. Use a black “Y” harness (2940-158) to connect the down pressure dump valve on row 11 to the 15 foot black dump valve cable routed from row 5’s down pressure dump valve. From the remaining open connector on the black “Y” harness, route the necessary length of black dump valve cable to reach the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 harness installed in step 2.

**Step 4:** Route & install 15 foot length of white dump valve cable (2940-157) from the open 2 pin connector of the up pressure dump valve on row 5 to the up pressure dump valve on row 11. Use a white “Y” harness (2940-159) to connect the up pressure dump valve on row 11 to the 15 foot white dump valve cable routed from row 5. From the remaining open connector on the white “Y” harness, route the necessary length of white dump valve cable to reach the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 harness installed in step 2.

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*Aux 3 & Aux 4 on 2940-162 are not yet used*
8/15 or 8/16 Split Row Airline Diagram

Step 1: T1 & T2  Route black & blue airline from the first corn row to the last corn row. Install the black airline in the fitting of the down pressure (larger) air bag & the blue airline in the fitting of the up pressure (smaller) air bag on the last corn row. Trace both airlines back to the first corn row installing tees in each airline at each corn row. Route & install blue airline from the up pressure air bag fitting to the tee in the up pressure (blue) circuit for that corn row. Route & install black airline from the down pressure air bag fitting to the tee in the down pressure (black) circuit for that corn row. When back to the first corn row, cut each airline to length & install each airline into the fitting of the matching air bag.

Step 2: S1 At the down pressure dump valve on corn rows 3 & 6, cut & install a tee into the T1 airline installed in step 1. Route & install black airline from the remaining open port in the tee to the outlet port of the down pressure dump valve & install. Route & install black airline from the RD port on the 2940-101 compressor housing to the nearest point on the frame that the seed units are mounted to and install a tee. Route & install black airline from each side of the tee to the inlet port of the dump valve on corn rows 3 & 6.

Step 3: S2 At the up pressure dump valve on corn rows 3 & 6, cut & install a tee into the T2 airline installed in step 1. Route blue airline from the remaining open port in each tee to the outlet port of the dump valve & install. Route & install blue airline from the RU port on the 2940-101 compressor housing to the nearest point on the frame that the seed units are mounted to & install a tee. Route & install blue airline from each side of the tee to the inlet port of the dump valve on corn rows 3 & 6.

Step 4: T3 & T4 Route black & blue airline from the first split row to the last split row. Install the black airline in the fitting of the down pressure (larger) air bag & the blue airline in the fitting of the up pressure (smaller) air bag on the last split row. Trace both airlines back to the first split row installing tees in each airline at each split row. Route & install blue airline from the up pressure air bag fitting to the tee in the up pressure (blue) circuit for that split row. Route & install black airline from the down pressure air bag fitting to the tee in the down pressure (black) circuit for that split row. When back to the first split row, cut each airline to length & install each airline into the fitting of the matching air bag.

Step 5: S1 At the down pressure dump valve on corn rows 3 & 6, cut & install a tee into the T3 airline installed in step 4. At the up pressure dump valve on corn rows 3 & 6, cut & install a tee into the T4 airline installed in step 4.

Step 6: Install a tee just downstream of the outlet port on the down pressure dump valve on corn rows 3 & 6. Install a 6 inch piece of black airline in the remaining port of each tee. Install a ball valve (2940-342) on the open end of each 6 inch piece of black airline. Route & install black airline from the open port on each ball valve to each tee in the T3 airline installed in step 5.

Step 7: Install a tee just downstream of the outlet port on the up pressure dump valve on corn rows 3 & 6. Install a 6 inch piece of blue airline in the remaining port of each tee. Install a ball valve on the open end of each 6 inch piece blue airline. Route & install blue airline from the open port on each ball valve to each tee in the T4 airline installed in step 5.

Step 8: Install a plug (2940-352) provided in the spare fittings bag (2940-174) in the WT port on the 2940-101 compressor housing.
12 Row Dump Valve Diagram

**KEY**
- = Dump Valve
\= Planter Row Unit
\(\text{Y} = \text{Y Harness}\)

**Step 1:** Install 2 dump valves on each of the following rows: 2, 6, & 11.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** At row 2, install the mating 2 pin connector on the 2940-156 15ft black dump valve cable to the 2 pin cable on one dump valve and install the mating 2 pin connector on the 2940-157 15ft white dump valve cable to the 2 pin cable on the other dump valve. Route both cables to the dump valves on row 6 but do not install.

**Step 4:** At row 11, install the mating 2 pin connector on the 2940-156 15ft black dump valve cable to the 2 pin cable on one dump valve and install the mating 2 pin connector on the 2940-157 15ft white dump valve cable to the 2 pin cable on the other dump valve. Route both cables to the dump valves on row 6 but do not install.

**Step 5:** At row 6, install a 2940-158 black Y harness connecting the black dump valve cables routed in steps 3 & 4.

**Step 6:** Install a second black Y harness connecting one dump valve on row 6 to the Y harness installed in step 5.

**Step 7:** Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 6 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 from step 2.

**Step 8:** At row 6, install a 2940-159 white Y harness connecting the white dump valve cables routed in steps 3 & 4.

**Step 9:** Install a second white Y harness connecting the open dump valve on row 6 to the Y harness installed in step 8.

**Step 10:** Route appropriate length of white dump valve cable(s) from the open 2 pin connector at row 6 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

\(\text{\ding{51}} \text{Aux 3 & Aux 4 on 2940-162 are not yet used} \text{\ding{51}}\)
12 Row Airline Diagram

Step 1: T1 & T2 Route blue & black airline from row 1 to row 4. At row 4, install the black airline in the down pressure (larger) air bag fitting & blue airline in the up pressure (smaller) air bag fitting. Install a tee in each color of airline at rows 2 & 3. Install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline at each row. At row 1, cut both airlines to length & install each airline into the matching air bag fitting.

Step 2: Cut & tee T1 & T2 airline next to the matching dump valve on row 2. Route black airline from the tee in the T1 black airline into the outlet port of the down pressure dump valve (black cable) & route blue airline from the tee in the T2 blue airline to the outlet port of the up pressure dump valve (white cable).

Step 3: T5 & T6 Route blue and black airline from row 12 to row 9. At row 9, install each airline into the matching air bag’s fitting. Install a tee in each color of airline at row 10 & 11. Install blue airline from the up pressure air bag fitting to the tee in the blue airline & black airline from the down pressure air bag fitting to the tee in the black airline at each row. At row 12, cut both airlines to length & install each airline into the matching air bag fitting.

Step 4: Cut & tee T5 & T6 airline next to the matching dump valve on row 11. Route black airline from the tee in the T5 black airline into the outlet port of the down pressure dump valve (black cable) & route blue airline from the tee in the T6 blue airline to the outlet port of the up pressure dump valve (white cable).

Step 5: T3 & T4 Route blue and black airline from row 5 to row 8. Install each airline at row 8 into the matching air bag’s fitting. Trace both airlines back to row 5 installing a tee in each airline at rows 6 & 7. Install blue airline from the up pressure air bag fitting to the tee in blue airline on rows 6 & 7. Install black airline from the down pressure air bag fitting to the tee in the black airline on rows 6 & 7. At row 5, cut both airlines to length & install into the matching air bag.

Step 6: Cut & tee the T3 & T4 airline next to the matching dump valve on row 6. Route & install black airline from the tee in T3 black airline into the outlet port of the down pressure dump valve on row 6 & route blue airline from the tee in the T4 blue airline to the outlet port of the up pressure dump valve on row 6.

Step 7: S1 Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame that the seed units are mounted to & install a tee. From each side of the tee, route black airline to the inlet port on the down pressure dump valve on each wing/side of the planter. (Rows 2 and 11) (follow the same routing path as the trunk lines)

Step 8: S2 Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame that the seed units are mounted to and install a tee. Install a 6 inch piece of blue line into one port of tee. Install a second tee on the open end of the 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route blue airline from 2 of those ports to each inlet port on the up pressure dump valve on the wings/sides of the planter on row 2 and row 11 & install. Route blue airline from remaining port of the tee to the inlet port on the up pressure dump valve on row 6 & install.

Step 9: S3 Route black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 6.

KEY
■ = Dump Valve
□ = Planter Row Unit
T1-6 = Trunk Line
S1-3 = Supply Line

OUTLET TO ROW CLEANERS
INLET
EXHAUST

OUTLET TO ROW CLEANERS
INLET
EXHAUST
12/23 or 12/24 Split Row Dump Valve Diagram

**KEY**
- ■ = Dump Valve
- □ = Planter Row Unit
- Y = Y Harness

**Down Pressure Dump Valve**
- Row 1
- Row 2
- Row 3
- Row 4
- Row 5
- Row 6
- Row 7
- Row 8
- Row 9
- Row 10
- Row 11
- Row 12
- Row 13
- Row 14
- Row 15
- Row 16
- Row 17
- Row 18
- Row 19
- Row 20
- Row 21
- Row 22
- Row 23
- Row 24

**Up Pressure Dump Valve**
- Row 1
- Row 2
- Row 3
- Row 4
- Row 5
- Row 6
- Row 7
- Row 8
- Row 9
- Row 10
- Row 11
- Row 12
- Row 13
- Row 14
- Row 15
- Row 16
- Row 17
- Row 18
- Row 19
- Row 20
- Row 21
- Row 22
- Row 23
- Row 24

**Step 1:** Install 2 dump valves on each of the following rows: 5, 13, & 19.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** At row 5 & 19, install a 2940-156 15ft black dump valve cable from the 2 pin connector on one dump valve at each row and route to the dump valve on row 13 but don’t install.

**Step 4:** At row 13, install a 2940-158 black Y harness to connect the 15ft black dump valve cables from row 5 & 19 (from step 3). Install a second black Y harness to connect one dump valve on row 13 to the Y harness connecting rows 5 & 19, so that only 1 open 2 pin connector remains.

**Step 5:** Route the appropriate length of black dump valve cable(s) from the open 2 pin connector on the Y harness from step 4 to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 dump valve harness installed in step 2.

**Step 6:** At row 5 & 19, route 2940-157 15ft white dump valve cables from the 2 pin connector on each unused dump valve and route to the unused dump valve on row 13 but don’t install.

**Step 7:** At row 13, install a 2940-159 white Y harness connecting the white dump valve cables routed in step 6. Install a second white Y harness to connect the unused dump valve on row 13 to the Y harness connecting rows 5 & 19.

**Step 8:** Route the appropriate length of white dump valve cable(s) from the open 2 pin connector on the Y harness installed in step 7 to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 dump valve harness installed in step 2.

⚠️ Aux 3 & Aux 4 on 2940-162 are not yet used ⚠️
Step 1: T1 & T2 Route black & blue airline from corn row 1 to corn row 4 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to corn 1, installing a tee in each airline at corn rows 2 & 3, & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on corn row 1. At corn rows 2 & 3, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 2: T3 & T4 Route black & blue airline from corn row 5 to corn row 8 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to corn 5, installing a tee in each airline at corn rows 6 & 7, & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on corn row 5. At corn rows 6 & 7, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 3: T5 & T6 Route black & blue airline from corn row 12 to corn row 9 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to corn 12, installing a tee in each airline at corn rows 10 & 11, & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on corn row 12. At corn rows 10 & 11, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 4: T7 & T8 Route black & blue airline from split row 1 to split row 3 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to split 1, installing a tee in each airline at split row 2, & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on split row 1. At split row 2, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 5: T9 & T10 Route black & blue airline from split row 4 to split row 8 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to split 4, installing a tee in each airline at split rows 5-7, & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on split row 4. At split row 5-7, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 6: T11 & T12 Route black & blue airline from the last split row to split row 9 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to the last split row, installing a tee in each airline at split row 10 & 11 (if equipped with only 11 split rows, only row 10 will need tee’s installed), & then cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on the last split row. At split row 10 & 11 (if equipped with 11 split rows, only row 10), install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 7: S1 At corn row 3 next to the down pressure dump valve, install a tee in the T1 black airline routing from corn row 1-4. Install black airline in the remaining port on the tee & route to the outlet port on the down pressure dump valve on corn row 3 & install. Install a tee just downstream of the outlet port of the down pressure dump valve on corn row 3 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve (2940-342) on the open end of the 6inch piece of black airline. Install a tee in the T7 black airline routing from split row 1-3. Install black airline from the open port of the ball valve to the open port of the tee. At corn row 10 next to the down pressure dump valve, install a tee in the T5 black airline routing from corn row 9-12. Install black airline in the remaining port on the tee & route to the outlet port on the down pressure dump valve on corn row 10 & install. Install a tee just downstream of the outlet port of the down pressure dump valve on corn row 10 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of black airline. Install a tee in the T11 black airline routing from the last split row to split row 9. Install black airline from the open port of the ball valve to the open port of the tee. Install black airline in the inlet port of the down pressure dump valves on corn rows 3 & 10. Route the black airline from the inlet port of these dump valves to the center of the planter & install a tee to connect the airlines together. Install black airline in the remaining open port of the tee, route to the RD port of the 2940-101 compressor housing.

Step 8: S2 At corn row 7 next to the down pressure dump valve, install a tee in the T3 black airline routing from corn row 5-8. Install black airline in the remaining port on the tee & route to the outlet port on the down pressure dump valve on corn row 7 & install. Install a tee just downstream of the outlet port of the down pressure dump valve on corn row 7 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of black airline. Install a tee in the T9 black airline routing from split row 1-3. Install black airline from the open port of the ball valve to the open port of the tee. Install black airline in the inlet port of the down pressure dump valve on corn row 7. Install black airline from the inlet port of the dump valve to the WT port of the 2940-101 compressor housing.

Step 9: S3 At corn row 3 next to the up pressure dump valve, install a tee in the T2 blue airline routing from corn row 1-4. Install blue airline in the remaining port on the tee & route to the outlet port on the up pressure dump valve on corn row 3 & install. Install a tee just downstream of the outlet port of the up pressure dump valve on corn row 3 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of blue airline. Install a tee in the T8 blue airline routing from split row 1-3. Install blue airline from the open port of the ball valve to the open port of the tee. At corn row 7 next to the up pressure dump valve, install a tee in the T4 blue airline routing from corn row 5-8. Install blue airline in the remaining port on the tee & route to the outlet port on the up pressure dump valve on corn row 7 & install. Install a tee just downstream of the outlet port of the up pressure dump valve on corn row 7 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of blue airline. Install a tee in the T12 blue airline routing from the last split row to split row 9. Install blue airline from the open port of the ball valve to the open port of the tee. Install blue airline in the inlet port of the up pressure dump valves on corn rows 3 & 10. Route the blue airline from the inlet port of these dump valves to the up pressure dump valve on corn row 7 & install tee to connect the blue airlines routed from the up pressure dump valves on rows 3 & 10. Route blue airline from the remaining port of the tee to the inlet on the up pressure dump valve on row 7. Install a tee next to the tee connecting the up pressure dump valves. Install blue airline from the remaining port of this tee to the RU port on the 2940-101 compressor housing.
Step 1: Install 2 dump valves on each of the following rows: 3, 8, & 14.
Step 2: Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the **GRAY** female connector on the side of the 2940-101 compressor housing.
Step 3: At row 3, install the mating 2 pin connector on the 2940-156 15ft black dump valve cable to the 2 pin cable on one dump valve and install the mating 2 pin connector on the 2940-157 15ft white dump valve cable to the 2 pin cable on the other dump valve. Route both cables to the dump valves on row 8 but do not install.
Step 4: At row 14, install the mating 2 pin connector on the 2940-156 15ft black dump valve cable to the 2 pin cable on one dump valve and install the mating 2 pin connector on the 2940-157 15ft white dump valve cable to the 2 pin cable on the other dump valve. Route both cables to the dump valves on row 8 but do not install.
Step 5: At row 8, install a 2940-158 black **Y** harness connecting the black dump valve cables routed in steps 3 & 4.
Step 6: Install a second black **Y** harness connecting one dump valve on row 8 to the **Y** harness installed in step 5.
Step 7: Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 6 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 from step 2.
Step 8: At row 8, install a 2940-159 white **Y** harness connecting the white dump valve cables routed in steps 3 & 4.
Step 9: Install a second white **Y** harness connecting the open dump valve on row 8 to the **Y** harness installed in step 8.
Step 10: Route appropriate length of white dump valve cable(s) from the open 2 pin connector at row 6 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

**Aux 3 & Aux 4 on 2940-162 are not yet used**
16 Row Airline Diagram

Step 1: T1 & T2 Route blue & black airline from row 1 to row 5. At row 5, install the black airline in the down pressure (larger) air bag fitting & blue airline in the up pressure (smaller) air bag fitting. Install a tee in each color of airline at rows 2-4. Install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline. At row 1, cut both airlines to length & install each airline into the matching air bag fitting.

Step 2: Cut & tee the T1 & T2 airline next to the matching dump valve on row 3. Route black airline from the tee in the T1 black airline into the outlet port of the down pressure dump valve (black cable) and route blue airline from the tee in the T2 blue airline to the outlet port of the up pressure dump valve (white cable).

Step 3: T5 & T6 Route blue and black airline from row 16 to row 12. At row 12, install each airline into the matching air bag’s fitting. Install a tee in each color of airline at rows 13-15. Install blue airline from the up pressure air bag fitting to the tee in the blue airline & black airline from the down pressure air bag fitting to the tee in the black airline. At row 12, cut both airlines to length and install each airline into the matching air bag fitting.

Step 4: Cut & tee T5 & T6 airline next to the matching dump valve on row 14. Route black airline from the tee in the T5 black airline into the outlet port of the down pressure dump valve (black cable) and route blue airline from the tee in the T6 blue airline to the outlet port of the up pressure dump valve (white cable).

Step 5: T3 & T4 Route blue and black airline from row 8 to row 11. Install each airline at row 11 into the matching air bag’s fitting. Trace both airlines back to row 8 installing a tee in each airline at each row (rows 5-8). Install blue airline from the up pressure air bag fitting to the tee in blue airline on rows 7-10. Install black airline from the down pressure air bag fitting to the tee in the black airline on rows 7-10. At row 8, cut both airlines to length and install into the matching air bag.

Step 6: Cut & tee the T3 & T4 airline next to the matching dump valve on row 8. Route & install black airline from the tee in T3 black airline into the outlet port of the down pressure dump valve on row 8 & route blue airline from the tee in the T4 blue airline to the outlet port of the up pressure dump valve on row 8.

Step 7: S1 Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame that the seed units are mounted to & install a tee. From each side of the tee, route & install black airline to the inlet port on the down pressure dump valve on each wing/side of the planter. (Rows 3 and 14) (follow the same routing path as the trunk airlines)

Step 8: S2 Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame that the seed units are mounted to and install a tee. Install a 6 inch piece of blue line into one port of tee. Install a second tee on the open end 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route blue airline from 2 of those ports to each inlet port on the up pressure dump valve on the wings/sides of the planter on row 3 and row 14 & install. Route blue airline from remaining port of the tee to the inlet port on the up pressure dump valve on row 8 & install.

Step 9: S3 Route black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 8.

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**KEY**
- = Dump Valve
- = Planter Row Unit
T1-5 = Trunk Line
S1-3 = Supply Line

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16/31 or 16/32 Split Row Dump Valve Diagram

KEY
• = Dump Valve
□ = Planter Row Unit
Y = Y Harness

Step 1: Install 1 dump valve on each of the following rows: 7 & 25.
   Install 2 dump valves on each of the following rows: 5, 15, & 27.
Step 2: Install the male 12 pin Deutsch connector of the 2940-162
dump valve cable into the GRAY female connector on the side of the
2940-101 compressor housing.
Step 3: On rows 5 & 27, install a 2940-158 black Y harness to
   connect the dump valve’s wiring harness leaving 1 open 2 pin
   connector on those rows.
Step 4: Install 2940-156 15ft black dump valve cable from the
   remaining open connector of the Y harnesses installed in step 3 on
rows 5 & 27 and route to one of the dump valves on row 15 but don’t
   install.
Step 5: Install a 2940-158 black Y harness connecting the 15ft black
dump valve cables routed from rows 5 & 27 in step 4.
Step 6: Install another 2940-158 black Y harness connecting the Y
   harness from step 5 to the 2 pin connector of one of the dump valves
   on row 15, leaving one open 2 pin connector.
Step 7: Route the appropriate length of black dump valve cable(s)
   from the open 2 pin connector on the Y harness from step 6 to the 2
   pin connector labeled RM DOWN DUMP (orange/black wires) on the
2940-162 dump valve harness installed in step 2.
Step 8: Route 2940-157 15ft white dump valve cables from dump
   valves on rows 7 and 25 to the open, unused dump valve on row 15
   but don’t install.
Step 9: Install a 2940-159 white Y harness connecting the white
dump valve cables routed in step 8. Install a second white Y harness
connecting row 15’s dump valve to the white Y harness connecting
rows 7 & 25, so that only 1 open 2 pin connector remains.
Step 10: Route the appropriate length of white dump valve cable(s)
   from the open 2 pin connector on the white Y harness installed in
step 9 to the 2 pin connector labeled RM UP DUMP (yellow/black
wires) on the 2940-162 dump valve harness installed in step 2.

† Aux 3 & Aux 4 on 2940-162 are not yet used †
16/31 or 16/32 Row Airline Diagram Con’t

Step 1: T1 & T2  Route black & blue airline from corn row 1 to corn row 6 & install the black airline into the down pressure air bag (larger) fitting & the blue airline into the up pressure air bag (smaller) fitting. Trace both airlines back to corn 1, installing a tee in each airline at corn rows 2-5. At corn row 1, cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting. At corn rows 2-5, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 2: T3 & T4  Route black & blue airline from corn row 7 to corn row 10 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to corn row 7, installing a tee in each airline at corn rows 8 & 9. At corn row 7, cut both airlines to length and install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting. At corn rows 8 & 9, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 3: T5 & T6  Route black & blue airline from corn row 16 to corn row 11 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to corn 16, installing a tee in each airline at corn rows 12-15. At corn row 16, cut both airlines to length & install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting on corn row 16. At corn rows 12-15, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 4: T7 & T8  Route black & blue airline from split row 1 to split row 5 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to split 1, installing a tee in each airline at split rows 2-4. At split row 1, cut both airlines to length & install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting. At split row 2-4, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 5: T9 & T10  Route black & blue airline from split row 6 to split row 10 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to split 6, installing a tee in each airline at split rows 7-9. At split row 6, cut both airlines to length & install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting. At split row 7-9, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 6: T11 & T12  Route black & blue airline from the last split row to split row 11 & install the black airline into the down pressure air bag (larger) fitting & the blue airline in the up pressure air bag (smaller) fitting. Trace both airlines back to the last split row, installing a tee in each airline at split rows 12-14/15. At the last split row, cut both airlines to length & install the black airline in the down pressure air bag fitting & the blue airline in the up pressure air bag fitting. At split row 12-14/15, install blue airline from the up pressure air bag to the tee in the blue airline & install black airline from the down pressure air bag to the tee in the black airline.

Step 7: S1  At corn row 3 next to the down pressure dump valves, install a tee in the T1 black airline routing from corn row 1-6. Install black airline in the remaining port on each tee & route to the outlet port on each down pressure dump valve on corn row 3 & install. Install a tee just downstream of the outlet port of each down pressure dump valve on corn row 3 (same airline just installed). Install a 6” piece of black airline in the remaining port of each tee. Install a ball valve (2940-342) on the open end of each 6inch piece of black airline. Install a tee in the T7 black airline routing from split row 1-5. Install black airline from the open port of each ball valve to the open port of each tee. At corn row 14 next to the down pressure dump valves, install a tee in the T5 black airline routing from corn row 11-16. Install black airline in the remaining port on each tee & route to the outlet port on each dump valve on corn row 14 & install. Install a tee just downstream of the outlet port of each down pressure dump valve on corn row 14 (same airline just installed). Install a 6” piece of black airline in the remaining port of each tee. Install a ball valve on the open end of each 6inch piece of black airline. Install a tee in the T11 airline routing from the last split row to split row 11. Install black airline from the open port of each ball valve to the tee in the black airline. At the down pressure dump valves on row 3, install a long enough piece of airline in each inlet port of these dump valves to connect these airlines with a tee. At the down pressure dump valves on row 14, install a long enough piece of airline in each inlet port of these dump valves to connect these airlines with a tee. Route black airline from each open port of the tee to the center of the planter and connect using another tee. From the remaining port of this tee, route black airline to the RD port of the 2940-101 compressor housing & install.

Step 8: S2  At corn row 8 next to the down pressure dump valve, install a tee in the T3 black airline routing from corn row 7-10. Install black airline in the remaining port on the tee & route to the outlet port on the down pressure dump valve on corn row 8 & install. Install a tee just downstream of the outlet port of the down pressure dump valve on corn row 8 (same airline just installed). Install a 6” piece of black airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of black airline. Install a tee in the T9 black airline routing from split row 6-10. Install black airline from the open port of the ball valve to the open port of the tee. Install black airline in the inlet port of the down pressure dump valve on corn row 8. Route the black airline from the inlet port of the dump valve to the WT port of the 2940-101 compressor housing, & install.

Step 9: S3  At corn row 4 next to the up pressure dump valve, install a tee in the T2 blue airline routing from corn row 1-6. Install black airline in the remaining port on the tee & route to the outlet port on the up pressure dump valve on corn row 4 & install. Install a tee just downstream of the outlet port of the up pressure dump valve on corn row 4 (same airline just installed). Install a 6” piece of blue airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of blue airline. Install a tee in the T8 blue airline routing from split row 1-5. Install blue airline from the open port of the ball valve to the open port of the tee. At corn row 8 next to the up pressure dump valve, install a tee in the T4 blue airline routing from corn row 6-10. Install blue airline in the remaining port on the tee & route to the outlet port on the up pressure dump valve on corn row 8 & install. Install a tee just downstream of the outlet port of the up pressure dump valve on corn row 8 (same airline just installed). Install a 6” piece of blue airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of blue airline. Install a tee in the T10 blue airline routing from split row 6-10. Install blue airline from the open port of the ball valve to the open port of the tee. At corn row 13 next to the up pressure dump valve, install a tee in the T6 blue airline routing from corn row 11-16. Install blue airline in the remaining port on the tee & route to the outlet port on the up pressure dump valve on corn row 13 & install. Install a tee just downstream of the outlet port of the up pressure dump valve on corn row 13 (same airline just installed). Install a 6” piece of blue airline in the remaining port of the tee. Install a ball valve on the open end of the 6inch piece of blue airline. Install a tee in the T12 blue airline routing from the last split row to split row 11. Install blue airline from the open port of the ball valve to the open port of the tee. Install blue airline in the inlet port of the up pressure dump valves on corn rows 4 & 13. Route the blue airline from the inlet port of these dump valves to the up pressure pump valve on corn rows 4 & 13. Install blue airline from the remaining port of the tee to the inlet on the up pressure pump valve on corn row 8. Install a tee next to the tee connecting the up pressure pump valves. Install blue airline from the remaining port of this tee to the RU port on the 2940-101 compressor housing.
24 Row Dump Valve Diagram

**KEY**
- = Dump Valve
☐=Planter Row Unit
Y = Y Harness

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**Down Pressure Dump Valve**

**Row**

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

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**Up Pressure Dump Valve**

**Row**

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

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**Step 1:** Install 1 dump valve on each of the following rows: 6, 12, 13, & 19. Install 2 dump valves on each of the following rows: 5 & 20.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** At row 5’s dump valves, connect each dump valve’s 2 pin cable using a 2940-158 black Y harness. Install a 2940-154 30ft black dump valve cable on the open end of the Y harness and route to row 13’s dump valve but don’t install.

**Step 4:** At row 20’s dump valves, connect each dump valve’s 2 pin cable using a 2940-158 black Y harness. Install a 2940-154 30ft black dump valve cable on the open end of the Y harness and route to row 13’s dump valve but don’t install.

**Step 5:** At row 13, use 1 black Y harnesses to connect the 30ft black dump valve cable routed from row 5 (step 3) and the 30ft black dump valve harness routed from row 20 (step 4). Use a second black Y harness to connect row 13’s dump valve cable to the Y harness connecting row 5 and 20 leaving 1 open 2 pin connector.

**Step 6:** Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 13 (from step 5) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 from step 2.

**Step 7:** At row 6’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the dump valve on row 12 but don’t install. At row 19’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable and route to row 12 but don’t install.

**Step 8:** At row 12, use a 2940-159 white Y harnesses to connect the white dump valve cable routed from the dump valve on row 6 & row 19 (in step 7) & a second 2940-159 white Y harness to connect the dump valve on row 12 to the Y harness used to connect the dump valves on row 6 & 19 so that only 1) 2 pin connector remains.

**Step 9:** Route the appropriate length of white dump valve cable(s) from the open 2 pin connector of the Y harness at row 12 (from step 8) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

🌟Aux 3 & Aux 4 on 2940-162 are not yet used🌟
24 Row Airline Diagram Con’t

**Step 1: T1 & T2** Route blue & black airline from row 1 to row 9. At row 9, install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees at each row unit in each airline. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 1, cut both airlines to length & install each airline into the matching air bag.

**Step 2: T3 & T4** Route blue & black airline from row 10 to row 15. Install each airline into the matching air bag on row 15. Trace both airlines back to row 10 installing tees at each row unit in each airline. Install blue airline from the up pressure air bags to the tee in the up pressure airline for that row. Install black airline from the down pressure air bags to the tee in the down pressure airline for that row. At row 10, cut both airlines to length and install each airline into the matching air bag.

**Step 3: T5 & T6** Route blue & black airline from row 24 to row 16. Install each airline into the matching air bag on row 16. Trace both airlines back to row 24 installing tees at each row unit in each airline. Install blue airline from the up pressure air bags to the tee in the up pressure airline for that row. Install black airline from the down pressure air bag to the tee in the down pressure airline for that row. At row 24, cut both airlines to length and install each airline into the matching air bag.

**Step 4: S1** Install a tee in the T1 airline next to each down pressure dump valve on row 5. Install black airline from the outlet port on the down pressure dump valves on row 5 to the tee installed for that dump valve. Install a tee in the T5 airline next to each down pressure dump valve on row 20. Install black airline from the outlet port on the down pressure dump valves on row 20 to the tee installed for that dump valve. Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. From each side of the tee, route black airline to the inlet port on the furthest down pressure dump valve on rows 5 and 20 (follow the same routing path as the trunk airlines). Install a tee into the S1 airline next to the other down pressure dump valves on rows 5 & 20. Install black airline from the tee to the inlet port of each dump valve.

**Step 5: S2** Install a tee in the T3 airline next to the dump valve on row 13. Install black airline from the outlet port on the down pressure dump valve on row 13 to the tee installed for that dump valve. Route & install black airline from the WT port of the S1 compressor housing to the inlet of the down pressure dump valve on row 13.

**Step 6: S3** Install a tee in the T2 airline next to the up pressure dump valve on row 6. Install blue airline from the outlet port on the up pressure dump valve on row 6 to the tee installed for that dump valve. Install a tee in the T4 airline next to the up pressure dump valve on row 12. Install blue airline from the outlet port of the up pressure dump valve to the tee installed for that dump valve. Install a tee in the T6 airline next to the up pressure dump valve on row 19. Install blue airline from the outlet port of the up pressure dump valve on row 19 to the tee installed for that dump valve. Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. Install a 6 inch piece of blue airline into one port of the tee. Install a second tee on the open end of the 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route & install blue airline from 2 of those ports to each inlet port on the up pressure dump valve on rows 6 and 19. Route & install blue airline from remaining open port on the tee to the inlet on the up pressure dump valve on row 12.
KEY
- = Dump Valve
□ = Planter Row Unit
Y = Y Harness

Step 1: Install 1 dump valve on each of the following rows: 7, 9, 13, 35, 39, & 41. Install 2 dump valves on row 23.
Step 2: Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.
Step 3: At row 7's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 13 but don't install. At row 41's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 35 but don't install.
Step 4: Connect the 2 pin cable of the dump valve on row 13 & the cable routed from row 7 from step 3 using a 2940-158 black Y harness. Connect the 2 pin cable of the dump valve on row 35 & the cable routed from row 41 from step 3 using a 2940-158 black Y harness.
Step 5: Install a 2940-154 30ft black dump valve harness in the remaining connector of the black Y harness at row 13 & route to one dump valve on row 23 but don't install. Install a 2940-154 30ft dump valve harness in the remaining connector of the black Y harness at row 35 & route to the dump valve on row 23 but don't install.
Step 6: At row 23, use one 2940-158 black Y harnesses to connect the black dump valve cable ran from each wing/side section of the planter (in step 5) and a second 2940-158 black Y harness connecting the Y harness installed at the beginning of this step to the dump valve on row 23 so that only 1) open 2 pin connector remains.
Step 7: Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 23 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 cable from step 2.
Step 8: At row 9's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 30ft white dump valve cable & route to the open dump valve on row 23 but don't install. At row 39's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the open dump valve on row 23 but don't install.
Step 9: At row 23, use 2) 2940-158 white Y harnesses to connect the white dump valve cable ran from each wing/side section of the planter (in step 8) & also the dump valve on row 23 so that only 1) open 2 pin connector remains.
Step 10: Route the appropriate length of white dump valve cable(s) from the open 2 pin connector at row 16 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

🌟 Aux 3 & Aux 4 on 2940-162 are not yet used 🌟
24/47 or 24/48 Row Airline Diagram

KEY
- = Dump Valve
□ = Planter Row Unit
○ = Ball Valve
T1-12 = Trunk Line
S1-3 = Supply Line

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To supply air to the T7 airlines, install a tee just downstream of the outlet port on the dump valves used in the RD circuit for corn rows.

To supply air to the T9 airlines, install a tee just downstream of the outlet port on the dump valves used in the WT circuit for corn rows.

To supply air to the T11 airlines, install a tee just downstream of the outlet port on the dump valves used in the RD circuit for corn rows.

To supply air to the T8, T10, & T12 airlines, install a tee just downstream of the outlet port on the dump valves used in the RU circuit on corn rows.

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EXHAUST ➔ OUTLET TO ROW CLEANERS
INLET

Aux 3 & Aux 4 on 2940-162 are not yet used.
32 Row Dump Valve Diagram

**KEY**
- ■ = Dump Valve
- □ = Planter Row Unit
- Y = Y Harness

**Step 1:** Install 1 dump valve on each of the following rows: 5, 7, 10, 16, 17, 24, 26, & 28.

**Step 2:** Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

**Step 3:** At row 5’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 10 but don't install. At row 28's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 24 but don't install.

**Step 4:** Connect the 2 pin cable of the dump valve on row 10 & the cable routed from row 5 from step 3 using a 2940-158 black Y harness. Connect the 2 pin cable of the dump valve on row 24 & the cable routed from row 28 from step 3 using a 2940-158 black Y harness.

**Step 5:** Install a 2940-154 30ft black dump valve harness in the remaining connector of the black Y harness at row 10 & route to the dump valve on row 17 but don't install. Install a 2940-154 30ft dump valve harness in the remaining connector of the black Y harness at row 24 & route to the dump valve on row 17 but don't install.

**Step 6:** At row 17, use one 2940-158 black Y harnesses to connect the black dump valve cable ran from each wing/side section of the planter (in step 5) and a second 2940-158 black Y harness connecting the Y harness installed at the beginning of this step to the dump valve on row 17 so that only 1) open 2 pin connector remains.

**Step 7:** Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 17 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 cable from step 2.

**Step 8:** At row 7’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the dump valve on row 16 but don’t install. At row 26’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the dump valve on row 16 but don’t install.

**Step 9:** At row 16, use 2) 2940-159 white Y harnesses to connect the white dump valve cable ran from each wing/side section of the plant (in step 8) & also the dump valve on row 16 so that only 1) open 2 pin connector remains.

**Step 10:** Route the appropriate length of white dump valve cable(s) from the open 2 pin connector at row 16 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

⚠️ Aux 3 & Aux 4 on 2940-162 are not yet used ⚠️
32 Row Airline Diagram Con’t

Step 1: T1 & T2 Route blue & black airline from row 1 to row 13. At row 13, install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airline back to row 1 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag at each row to the tee in the down pressure (black) circuit for that row. At row 1, cut both airlines to length & install each airline into the matching air bag.

Step 2: Install a tee in the T1 airline next to each down pressure dump valve on row 5 and row 10. Install black airline from the outlet port on the down pressure dump valves on row 5 and row 10 to the tee installed for that dump valve. Install a tee in the T2 airline next to the up pressure dump valve on row 7. Install blue airline from the outlet port on the up pressure dump valve on row 7 to the tee installed for that dump valve.

Step 3: T5 & T6 Route blue and black airline from row 32 to row 20. At row 20, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace airline from row 20 back to row 32 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag at each row to the tee in the down pressure (black) circuit for that row. At row 32, cut both airlines to length and install each airline into the matching air bag.

Step 4: Install a tee in the T5 airline next to each down pressure dump valve on row 24 and row 28. Install black airline from the outlet port on each down pressure dump valve on row 24 and row 28 to the tee installed for that dump valve. Install a tee in the T6 airline next to the up pressure dump valve on row 26. Install blue airline from the outlet port of the up pressure dump valve on row 26 to the tee.

Step 5: T3 & T4 Route blue and black airline from row 14 to row 19. At row 19, install the black airline in the down pressure air bag & the blue airline in the up pressure air bag. Trace both airlines back to row 14 installing a tee in each airline at each row. Install blue airline from the up pressure air bag at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag at each row to the tee in the down pressure (black) circuit for that row. At row 14, cut both airlines to length and install each airline into the matching air bag.

Step 6: Install a tee in the T3 airline next to the down pressure dump valve on row 17. Install black airline from the tee in T3 airline into the outlet port on the down pressure dump valve on row 17. Install a tee in the T4 airline next to the dump valve on row 16. Install blue airline from the tee in T4 airline to the outlet port on the up pressure dump valve on row 16.

Step 7: S1 Route black airline from the RD port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. From each side of the tee, route black airline to the inlet port of the down pressure dump valve on row 5 & row 28. (follow the same routing path as the trunk lines) Install a tee into the S1 airline next to the other down pressure dump valves on rows 10 and 24. Route black airline from each tee to the inlet port for that dump valve.

Step 8: S2 Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame & install a tee. Install a 6 inch piece of blue line into one port of tee. Install a second tee on the open end 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route & install blue airline from 2 of those ports to each inlet port on the up pressure dump valve on rows 7 & 26. Route & install blue airline from the remaining port on the tee to the inlet on the up pressure dump valve on row 16.

Step 9: S3 Route black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 17.
36 Row Dump Valve Diagram

KEY
- = Dump Valve
= = Planter Row Unit
Y = Y Harness

Step 1: Install 1 dump valve on each of the following rows: 5, 7, 10, 27, 30, & 32. Install 2 dump valves on row 18.

Step 2: Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

Step 3: At row 5’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 10 but don’t install. At row 32’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 27 but don’t install.

Step 4: Connect the 2 pin cable of the dump valve on row 10 & the cable routed from row 5 in step 3 using a 2940-158 black Y harness. Connect the 2 pin cable of the dump valve on row 27 & the cable routed from row 32 in step 3 using a 2940-158 black Y harness.

Step 5: Install a 2940-154 30ft black dump valve harness in the remaining connector of the Y harness at row 10 & route to the dump valve on row 18 but don’t install. Install a 2940-154 30ft black dump valve harness in the remaining connector of the Y harness at row 27 & route to the dump valve on row 18 but don’t install.

Step 6: At row 18, use 2) 2940-158 black Y harnesses to connect the black dump valve cable ran from each wing/side section of the planter (in step 5) & also the dump valve on row 18 so that only 1) 2 pin connector remains.

Step 7: Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 18 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (orange/black wires) on the 2940-162 cable from step 2.

Step 8: At row 7’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the open dump valve on row 18 but don’t install. At row 30’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the open dump valve on row 18 but don’t install.

Step 9: At row 18, use 2) 2940-159 white Y harnesses to connect the white dump valve cable ran from each wing/side section of the planter (in step 8) & also the open dump valve on row 18 so that only 1) 2 pin connector remains.

Step 10: Route the appropriate length of white dump valve cable(s) from the open 2 pin connector at row 18 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

🌟 Aux 3 & Aux 4 on 2940-162 are not yet used🌟
36 Row Airline Diagram Con’t

Step 1: T1 & T2 Route blue & black airline from row 1 to row 15. At row 15, install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 1, cut both airlines to length & install each airline into the matching air bag.

Step 2: T3 & T4 Route blue and black airline from row 16 to row 21. At row 21, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines back to row 16 installing a tee in each airline at each row. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 16, cut both airlines to length and install each airline into the matching air bag.

Step 3: T5 & T6 Route blue and black airline from row 36 to row 22. At row 22, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines from row 22 back to row 36 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 36, cut both airlines to length and install each airline into the matching air bag.

Step 4: S1 Install a tee in the T1 airline next to each down pressure dump valve on row 5 and row 10. Install black airline from the outlet port on the down pressure dump valves on row 5 & 10 to the tee installed for that dump valve. Install a tee in the T5 airline next to each down pressure dump valve on rows 5 & 10. Install black airline from the outlet port on each down pressure dump valve to each tee installed for that dump valve. Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. From each side of the tee, route black airline & install in the inlet port on the down pressure dump valve on rows 5 & 32. (follow the same routing path as the trunk airlines) Install a tee into the S1 airline next to the down pressure dump valves on rows 10 and 27 & install black airline from the tee to the inlet port on each of those dump valves.

Step 5: S2 Install a tee in the T3 airline next to the down pressure dump valve on row 18. Install black airline from the tee in the T3 airline into the outlet port on the down pressure dump valve on row 18. Route & install black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 18.

Step 6: S3 Install a tee in the T2 airline next to the up pressure dump valve on row 7. Install blue airline from the outlet port on the up pressure dump valve on row 7 to the tee. Install a tee in the T4 airline next to the up pressure dump valve on row 18. Install blue airline from the tee in T4 airline to the outlet port on the up pressure dump valve on row 18. Install a tee in the T6 airline next to the up pressure dump valve on row 30. Install blue airline from the outlet port on the up pressure dump valve on row 30 to the tee. Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame & install a tee. Install a 6 inch piece of blue airline into one port of the tee. Install a second tee on the open end 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route & install blue airline from 2 of those ports to each inlet port on the up pressure dump valve on rows 7 & 30. Route & install blue airline from the remaining port on the tee to the inlet on the up pressure dump valve on row 18.
48 Row Dump Valve Diagram

Step 1: Install 1 dump valve on each of the following rows: 8, 11, 14, 35, 38, & 41. Install 2 dump valves on row 24.
Step 2: Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the **GRAY** female connector on the side of the 2940-101 compressor housing.
Step 3: At row 7's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 14 but don't install. At row 41's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 35 but don't install.
Step 4: Connect the 2 pin cable of the dump valve on row 14 & the cable routed from row 8 in step 3 using a 2940-1159 black Y harness. Connect the 2 pin cable of the dump valve on row 35 & the cable routed from row 41 in step 3 using a 2940-158 black Y harness.
Step 5: Install a 2940-154 30ft black dump valve harness in the remaining open connector of the Y harness at row 14 & route to the dump valve on row 24 but don't: Install a 2940-154 30ft black dump valve harness in the remaining open connector of the Y harness at row 35 & route to the dump valve on row 24 but don't install.
Step 6: At row 24, use 2) 2940-158 black Y harnesses to connect the black dump valve cable ran from each wing/side section of the planter (in step 5) and also the dump valve on row 24 so that only 1) 2 pin connector remains.
Step 7: Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 25 (from step 6) to the 2 pin connector labeled **RM DOWN DUMP (orange/black wires)** on the 2940-162 cable from step 2.
Step 8: At row 11's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the dump valve on row 24 but don't install. At row 38's dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the dump valve on row 24 but don't install.
Step 9: At row 24, use 2) 2940-159 white Y harnesses to connect the white dump valve cable ran from each wing/side section of the plant (in step 8) & also the dump valve on row 24 so that only 1) 2 pin connector remains.
Step 10: Route the appropriate length of white dump valve cable(s) from the open 2 pin connector at row 24 (from step 9) to the 2 pin connector labeled **RM UP DUMP (yellow/black wires)** on the 2940-162 from step 2.

**Aux 3 & Aux 4 on 2940-162 are not yet used**
48 Row Airline Diagram

**Step 1: T1 & T2** Route blue & black airline from row 1 to row 21. At row 21, install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 1, cut both airlines to length & install each airline into the matching air bag.

**Step 2: T3 & T4** Route blue and black airline from row 22 to row 27. At row 27, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines back to row 22 installing a tee in each airline at each row. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 22, cut both airlines to length and install each airline into the matching air bag.

**Step 3: T5 & T6** Route blue and black airline from row 48 to row 28. At row 28, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines from row 28 back to row 48 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 48, cut both airlines to length and install each airline into the matching air bag.

**Step 4: S1** Install a tee in the T1 airline next to each down pressure dump valve on row 8 and row 14. Install black airline from the outlet port on the down pressure dump valves on row 8 &14 to the tee installed for that dump valve. Install a tee in the T5 airline next to each down pressure dump valve on rows 35 & 41. Install black airline from the outlet port on each down pressure dump valve to each tee installed for that dump valve. Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. From each side of the tee, route black airline to the inlet port on the down pressure dump valve on rows 8 & 41. (follow the same routing path as the trunk airlines) Install a tee into the S1 airline next to the down pressure dump valves on rows 14 and 35 & install black airline from tee to the inlet port on each of those dump valves.

**Step 5: S2** Install a tee in the T3 airline next to the down pressure dump valve on rows 24. Install black airline from the tee in T3 airline into the outlet port on the down pressure dump valve on row 24. Route & install black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 24.

**Step 6: S3** Install a tee in the T2 airline next to the up pressure dump valve on row 11. Install blue airline from the outlet port on the up pressure pump valve on row 11 to the tee. Install a tee in the T4 airline next to the up pressure pump valve on row 24. Install blue airline from the tee in T4 airline to the outlet port on the up pressure pump valve on row 24. Install a tee in the T6 airline next to the up pressure pump valve on row 38. Install blue airline from the outlet port on the up pressure pump valve on row 38 to the tee. Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame & install a tee. Install a 6 inch piece of blue airline into one port of the tee. Install a second tee on the open end 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route & install blue airline from 2 of those ports to each inlet port on the up pressure pump valve on rows 11 & 38. Route & install blue airline from the remaining port on the tee to the inlet on the up pressure pump valve on row 24.
54 Row Dump Valve Diagram

Step 1: Install 1 dump valve on each of the following rows: 9, 13, 18, 37, 42, & 46. Install 2 dump valves or row 27.

Step 2: Install the male 12 pin Deutsch connector of the 2940-162 dump valve cable into the GRAY female connector on the side of the 2940-101 compressor housing.

Step 3: At row 9’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 18 but don’t install. At row 46’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-156 15ft black dump valve cable & route to the dump valve on row 37 but don’t install.

Step 4: Connect the 2 pin cable of the dump valve on row 18 & the cable routed from row 9 using a 2940-158 black Y harness. Connect the 2 pin cable of the dump valve on row 37 & the cable routed from row 46 using a 2940-158 black Y harness.

Step 5: Install a 2940-154 30ft black dump valve harness in the remaining connector of the Y harness at row 18 from step 4 & route to a dump valve on row 27 but don’t install. Install a 2940-154 30ft black dump valve harness in the remaining connector of the Y harness at row 37 from step 4 & route to the dump valve on row 27 but don’t install.

Step 6: At row 27, use 2) 2940-158 black Y harnesses to connect the black dump valve cable ran from each wing/side section of the planter (in step 5) and also one dump valve on row 27 so that only 1) 2 pin connector remains.

Step 7: Route the appropriate length of black dump valve cable(s) from the open 2 pin connector at row 27 (from step 6) to the 2 pin connector labeled RM DOWN DUMP (black/orange wire) on the 2940-162 cable from step 2.

Step 8: At row 13’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the open dump valve on row 27 but don’t install. At row 42’s dump valve, connect the 2 pin connector of the dump valve to the mating 2 pin connector of the 2940-155 30ft white dump valve cable & route to the open dump valve on row 27 but don’t install.

Step 9: At row 27, use 2) 2940-159 white Y harnesses to connect the white dump valve cable ran from each wing/side section of the plant (in step 8) & also the open dump valve on row 27 so that only 1) 2 pin connector remains.

Step 10: Route the appropriate length of white dump valve cable(s) from the open 2 pin connector at row 27 (from step 9) to the 2 pin connector labeled RM UP DUMP (yellow/black wires) on the 2940-162 from step 2.

Aux 3 & Aux 4 on 2940-162 are not yet used.
54 Row Airline Diagram

KEY
- = Dump Valve
□ = Planter Row Unit
T1-6 = Trunk Line
S1-3 = Supply Line

Down Pressure
Black Airline Row

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

-S1

T1

-S1

T3

S3

2940-101
Compressor

Center section down pressure supply airline installs into the WT (wheel track) port

- S1

T5

Up Pressure
Blue Airline Row

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54

-T2

S2

T4

2940-101
Compressor

Tee all up pressure supply airline together & install into the RU port

- S2

T6

OUTLET TO ROW CLEANERS

INLET

EXHAUST

OUTLET TO ROW CLEANERS

INLET

EXHAUST
54 Row Airline Diagram Con’t

Step 1: T1 & T2 Route blue & black airline from row 1 to row 22. At row 22, install the black airline in the down pressure (larger) air bag & blue airline in the up pressure (smaller) air bag. Trace both airlines back to row 1 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 1, cut both airlines to length & install each airline into the matching air bag.

Step 2: T3 & T4 Route blue and black airline from row 23 to row 32. At row 32, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines back to row 23 installing a tee in each airline at each row. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 23, cut both airlines to length and install each airline into the matching air bag.

Step 3: T5 & T6 Route blue and black airline from row 54 to row 33. At row 33, install the black airline in the down pressure air bag & blue airline in the up pressure air bag. Trace both airlines back to row 54 installing tees in each airline at each row unit. Install blue airline from the up pressure air bag (smaller air bag) at each row to the tee in the up pressure (blue) circuit for that row. Install black airline from the down pressure air bag (larger air bag) at each row to the tee in the down pressure (black) circuit for that row. At row 54, cut both airlines to length and install each airline into the matching air bag.

Step 4: S1 Install a tee in the T1 airline next to each down pressure dump valve on row 9 and row 18. Install black airline from the outlet port on the down pressure dump valves on row 9 & 18 to the tee installed for that dump valve. Install a tee in the T5 airline next to each down pressure dump valve on rows 37 & 46. Install black airline from the outlet port on each down pressure dump valve to each tee installed for that dump valve. Route black airline from RD port of the 2940-101 compressor housing to the nearest point on the main frame and install a tee. From each side of the tee, route black airline to the inlet port on the down pressure dump valve on rows 9 & 46. (follow the same routing path as the trunk airlines) Install a tee into the S1 airline next to the down pressure dump valves on rows 18 and 37 & install black airline from the tee to the inlet port on each of those dump valves.

Step 5: S2 Install a tee in the T3 airline next to the down pressure dump valve on row 27. Install black airline from the tee in T3 airline into the outlet port on the down pressure dump valve on row 27. Route & install black airline from the WT port of the 2940-101 compressor housing to the inlet port of the down pressure dump valve on row 27.

Step 6: S3 Install a tee in the T2 airline next to the up pressure dump valve on row 13. Install blue airline from the outlet port on the up pressure dump valve on row 13 to the tee. Install a tee in the T4 airline next to the dump valve on row 27. Install blue airline from the tee in T4 airline to the outlet port on the up pressure dump valve on row 27. Install a tee in the T6 airline next to the up pressure dump valve on row 42. Install blue airline from the outlet port on the up pressure dump valve on row 42 to the tee. Route blue airline from the RU port of the 2940-101 compressor housing to the nearest point on the main frame & install a tee. Install a 6 inch piece of blue airline into one port of the tee. Install a second tee on the open end 6 inch piece of blue airline. This will give you 3 open ports on this circuit to use. Route & install blue airline from 2 of those ports to each inlet port on the up pressure dump valve on rows 13 & 42. Route & install blue airline from the remaining port on the tee to the inlet on the up pressure dump valve on row 27.
1. PRESET 1 – 5—Hold (approximately 5 seconds) to store the commanded pressure settings.

2. MENU—Press to display Menu Options. If in Menu Options, pressing Menu will take operator back one screen and eventually to operating screen.

3. ENTER—Press to activate/deactivate the system, also used in Menu options to make selections.

4. POWER—Press and hold to turn ON/OFF the 2940-100 Cab Controller Display.

5. UP I-IV—Press I to raise all row cleaners max travel. Pressing again lowers all row cleaners to preset setting. Up II-IV is not used!

6. A PSI UP Encoder (RU)—rotate to INCREASE/DECREASE Air Pressure on the attachment.
PSI DOWN Encoder (RD)—Rotate to INCREASE/DECREASE Air Pressure on the attachment.

6. B PSI Aux Encoder (WT, A1, A2, A3) - Push to scroll the curser. ROTATE to INCREASE/DECREASE air pressure on the curser selected circuit. (WT, A1, A2, and A3) WT circuit is the only circuit used. A1, A2, & A3 are not utilized at this time.

7. Push to scroll DOWN in the MENU display. Hold this down for 10 seconds to manually dump the water separator. Valve remains open for as long as button is pressed.

8. Push to scroll UP in the MENU display.
2940 Air Adjust Cab Controller Operation

Screen Control and Navigation:

1. **Screen Navigation:** Unless otherwise noted the MENU button will always take you back one screen at a time until you are arrive at the main menu.

2. To navigate to other screens from the main menu use the scroll arrow buttons to select the page you would like to go to and then press ENTER to navigate there.

3. **Splash Screen (Screen 0):** This screen will be presented after the POWER button has been pressed. This screen will show the project number and software V/R. It will be displayed for 5 seconds. After that the system will navigate to screen 1.

4. **Main Operating Screen (Screen 1, Pictured below):** This screen is where the air system is monitored and controlled.

4A The top of the screen shows what preset you are currently using (1-5), if a manual adjustment is made it will display “PRESET (X) MANUAL” until the preset is saved, then it will display PRESET X.

4B This will display “AIR ON” or “AIR OFF” depending on the status of the air system. Pressing ENTER will activate or deactivate the AIR ON/OFF. “AIR ON” signifies that the air system is operational & supplying air to the attachment. If AIR ON is displayed with sufficient tank pressure & there is no air in the air bag of the attachment, check the 40A breaker at the battery.

4C There is a field which will display the tank pressure in psi “TANK PSI”.

4D There are (4) fields which will indicate “UP” or “DN” (DOWN) depending on the state of the dump valves that are being controlled. If the Roman Numeral I indicator light is on, UP (under ROW) will be displayed & all residue managers will be in the up position. The UP/DN function under AUX & Roman Numerals II, III, & IV are not used.

4E There are (6) fields which define the tools on the system and their pressures. The pressures shown at the bottom of this screen have two modes. In normal operation mode the real pressure feedback from the air system is shown, but if a manual adjustment is made it will show the commanded value for 7.5 seconds, after that delay it will return to displaying the feedback values. Yetter Electric Compressor systems only use RU, RD, & WT.

**Operation Settings:**

“How much Down/Lift Pressure should I be running?”

The amount of Down/Lift Pressure will vary greatly across soil types, tillage practices, soil moisture, row unit weight & many other variables. Manage the pressure in the down and/or lift circuits in order to maintain 90%+ Ground Contact while keeping the pressure between 20-60 psi. The cab controller will display the tank pressure in psi & the down/lift circuits in psi. A typical starting range for residue managers (RM) would be 35psi up, 30psi down, and 32psi WT. A typical starting range for RM/coulter combo would be 40psi up, 35 psi down, 37psi WT. When an ideal pressure setting is found for a certain field condition, press & hold a preset to store the desired setting. If the residue managers aren’t removing enough residue, add more down pressure or subtract some up pressure. If the residue managers are being too aggressive, subtract down pressure or add up pressure.

**Normal operating ranges:**

- Down Pressure Bags: 20-60psi
- Lift Pressure Bags: 20-60psi
- Tank Pressure: The tank pressure on the cab controller is the only way to know what the tank pressure is. The compressor will shut off around 95psi & start to recover around 85psi. The reading from the cab controller comes from the transducer (2940-441) & relays the psi to the VDM which communicates that pressure to the cab controller. If the tank pressure reads zero & you are sure there is tank pressure, a transducer needs ordered.
2940 Air Adjust Cab Controller Operation

Main Menu: This screen will allow you to navigate to the setup and service screens. Selecting EXIT will return you to the main operating screen.

Setup: Currently this screen has one option, to select & edit the Dump Valve Delay.

- Dump Valve Delay: This screen allows you to adjust the dump valve delay time. Press the ENTER button to go into the edit mode & then adjust the time with the SCROLL UP/DOWN buttons. The time value will have .25 second resolution & will be adjustable from 0-60 seconds. Pressing ENTER again will exit the edit mode. Generally, no more than 2.5 seconds is needed. (see page 70 for proper setting)

- Setting the Dump Valve Delay:
  - Ensure all dump valves & harnesses are plugged in securely & that dump valves are functioning properly
  - Adjustments will be made in increments of .25 seconds.
  - When the dump valve delay is properly set, the residue managers should react as follows: with sufficient tank pressure, AIR ON displayed, command RU to 30psi, RD to 35psi, & WT to 37psi. Press the Roman numeral I button & all residue managers will raise. Press the Roman numeral I button again & all residue managers should drop to half travel & then settle into position. If the residue managers don’t go to half travel, more dump valve delay is needed. If the residue managers go further than half travel, less dump valve delay is needed. It is best to have a second person looking as well.
  - Access the dump valve delay screen on your cab controller.
  - Adjust the dump valve delay by .25 seconds at a time in the desired direction (more or less), revert to home screen.
  - Press the Roman numeral I button & observe residue managers to see if more adjustment is needed.
  - Keep adjusting as needed

SEE PAGE 70 TO SEE WHAT SETTING THE DUMP VALVE DELAY SHOULD BE FOR YOUR SITUATION

Service: This screen has (3) selections to choose from, HOUR METERS, MAINTENANCE, and FAULT STATUS.

- Hour Meters: This screen will contain (2) hour meters, air compressor hours, which only increments if the compressor is on, & total system hours, which only increments if the air system is enabled (AIR ON). There will also be a field that shows duty cycle; this is a cumulative value calculated by dividing compressor hours by system hours which equals the percentage of time the compressor has run in reference to how many hours the system has been enabled. The percentage shown by the duty cycle should be less than 20%. If not, perform the leak check. (See pages 70)

- Maintenance: This screen is static & has a text description indicating basic maintenance info.

- Fault Status: J1: This screen contains real time read outs of command & feedback voltage readings for each pin present in the connector labeled J1.
- Fault Status: J2: This screen contains real time read outs of command & feedback voltage readings for each pin present in the connector labeled J2
- Fault Status: J3: This screen contains real time read outs of command & feedback voltage readings for each pin present in the connector labeled J3
- Fault Status: J4: This screen contains real time read outs of command & feedback voltage readings for each pin present in the connector labeled J4

Warning – Compressor Run Time: This screen will be displayed if the compressor has been running continuously for 15 minutes. Evaluate the system for leaks or other issues before continuing. When all issues are fixed, press ENTER to clear the screen & resume normal operation.

Warning – Check Fault Screens: If a fault is detected, this screen will be displayed. Contact a service representative at Yetter, & have the fault screens ready, to review voltage readouts for diagnostics. This warning will remain displayed until the ENTER button is pressed.

Air System On: The state of this displayed text tells the operator if the system is operating or not. The Air System will be ON if the ENTER button is pressed on the main operating screen (screen 1). At this point the indicator will turn from red to green. It will maintain ON until ENTER is pressed again, turning the indicator back to its original color. Remember to switch the air system off, before removing power to the controller. The system is ON when the indicator is green; also the text on the screen will read “AIR ON” (vs. “AIR OFF”).

Compressor Sump Dump: This dumps any water that has built up in the compressor tank or water separator. This function is programmed to open the valve for 5 seconds every hour to dump the moisture. The Compressor Sump Dump valve can also be activated by holding the “Scroll Down” button while on the Main Operating Screen for 8 seconds. The valve will remain open as long as the button is pressed, releasing the button will close the valve.
THE VALUES USED IN THESE FAULT STATUSES ARE ONLY EXAMPLES. NUMBERS WILL VARY.
2940 Operation Guide

System Start Up Procedure

Below is the 2940 system startup procedure that should be followed every time the 2940-100 Cab Controller is turned on. This will ensure that component parts of the system are working correctly.

If this is the first start up procedure after installation, make sure to set the dump valve delay and familiarize yourself with cab controller operation. Before activating the system, save P1 at 35 RU, 30 RD, & 32 WT. Save P2 at 35 RU, 33 RD, & 35 WT.

**Step 1:** Supply power to the cab controller (start the tractor) & hold the Power button until the cab controller turns on.

**Step 2:** Turn all pressures (RU, RD, & WT) to 0psi. If using hydraulic compressor other than Yetter, engage compressor to operate and build 145psi and shut off.

**Step 3:** Press Enter to activate the system. AIR: ON will be displayed. The Yetter compressor will turn on (if it is below 85psi) & should build to 95psi & shut off. If the Yetter compressor doesn’t run & is below 80psi, check the 40A & 80 amp breaker on the tractor battery. Trip the breakers and reset the breaker arm firmly back into the pocket.

**Step 4:** When the compressor has shut off, press a preset (P1 – P5) to apply air to the air bags of the residue managers.

**Step 5:** Press the UP I button (lowest left button) while watching all the residue managers. When this button is pressed and the indicator light next to UP is lit, the residue managers should all raise.

**Step 6:** Press the UP 1 button while watching all the residue managers. All the residue managers should drop to half travel and then settle into position. (change dump valve delay if necessary, see page 70)

ROW CLEANER DO’S AND DON’TS

1. **DO NOT** use as a tillage tool; Residue Managers are designed to move crop residue & to break up clods & crust.
2. **DO NOT** operate planter at slow speeds. Ground speed affects how aggressive the residue manager wheels are. Operate at sufficient speed (refer to you OEM planter manufacturer manual) to maintain good residue flow.
3. **DO NOT** expect 100% of crop residue to be cleared, it is not necessary and would necessitate engaging the soil. The width of path cleared depends on ground conditions, depth setting, and ground speed.
4. **DO** expect to see wheels occasionally quit turning, indicating ideal (shallow) setting which is not moving soil.
5. **DO** adjust toolbar frame height 20”-22” and drawbar correctly. It is very important to ensure planter opener will follow ground contours properly. See Page 69 for the planter levelness and height.
6. **DO NOT** run air pressure below 20psi or above 60psi. Full range of travel can be achieved between these settings.
7. **DO** grease the hub cavity of the bearings regularly. Even though the bearings are sealed, filling the hub keeps moisture, dirt, & debris from entering the hub and ruining the seal. See page 72 for greasing intervals.
8. **DO NOT** run the coulter, if equipped, deeper than the disc opener blades. Coulter should be set to run even or slightly above disc opening blades depth.

**IMPORTANT:** For proper operation, the planter frame must operate level (fore, aft and side to side) and at the correct height, typically 20”-22”. Regularly inspect the residue manager for loose or worn bolts & hardware. Repair or replace as needed.

Overview:
This electronic control system works with a pneumatic system that controls pressure in the air bags as well as other air valves in the system on an agricultural application. The air bags provide independent up **AND** down pressure to the mechanical devices that are used on an agricultural implement.

System Layout:
There are (2) main parts to the control system. The first being a VDM (Valve Drive Module), the role of the VDM is to provide Outputs to control functions of the pneumatic system. The VDM will also provide Inputs to monitor the pneumatic system as well as provide feedback to the operator. The second part is an in-cab switch panel/display (Cab Controller) that allows the operator to control the pneumatic system and monitor its performance.
STOP

MACHINE OPERATION

Read this before field operation of the Yetter product.

IMPORTANT: Failure to properly set the planter frame height & levelness can result in less than successful operation of the planter & the Yetter product. This may result in damaged equipment. All operators should read & thoroughly understand the instructions given prior to using the Yetter product.

NOTE: DO NOT use this product if the planter is not adjusted properly!

Leveling the planter: On a level planting surface, lower the planter frame to an operation height of 20"-22". Make adjustments to the planter as necessary. Read the planter operator's manual for recommended setting. Check to be sure the toolbar & row unit parallel arms are level fore & aft. Re-Check when the planter is in the field & has been fully loaded with seed, fertilizer, etc. Also, a field check with a bubble level on the frame should be made of the hitch height to ensure level operation front to back. It is important for the planter to operate level laterally. Tire pressure must be maintained at pressures specified by the manufacturer. Field & actual planting conditions change & will dictate planter frame heights. You must ensure that the row unit parallel arms are approximately parallel with the ground.

IMPORTANT: For proper operation of the planter attachments & row units, it is imperative that the planter toolbars and row unit parallel arms be level side-to-side & front-to-rear. The toolbar frame should operate at a 20"-22" height from the planting surface. Check the manufacturer's operator's manual for instructions on how to adjust the frame height & levelness.

FIGURE A. (CORRECT)

FIGURE B. (INCORRECT)
Pre-Field Operation Guide

SYSTEM LEAK TESTING:
A leak testing procedure should be performed after set-up of the 2940 Air Adjust system is complete. This procedure shall be performed at the beginning of each planting season and every 20 hours of in season use. In addition, it should be performed if the user notices a lack of air pressure availability or if the compressor is running an abnormally high duty cycle or run time. It will help keep the duty cycle in check, thus extending the life of the compressor.

Step 1: Power the cab controller, turn all pressures (RU, RD, and WT) to 0psi, and press ENTER to activate the system. Make sure the Yetter Electric Compressor has operates correctly, has built around 95psi, & shut off.
Step 2: Check the compressor, water separator assembly, and all compressor housing components for leaks. Start a stopwatch& after 5 Minutes, note the tank pressure. If the tank pressure drops more than 2psi, there is a leak. Repair as needed.
Step 3: Turn up pressure (RU) to 30psi, exit the tractor cab, & start at the compressor housing checking all blue airline on the RU circuit for leaks. Check all fittings, tees, and dump valves on the RU circuit. Repair leaks as needed & then turn up pressure back to 0psi.
Step 4: Turn down pressure (RD) & wheel track (WT) pressure to 30psi, exit the tractor cab, & start at the compressor housing checking all black airlines on the RD & WT circuit for leaks. Check all fittings, tees, & dump valves on the RD & WT circuit. Repair leaks as needed.
Step 5: With tank pressure around 95psi, compressor not running, and 0psi commanded in all circuits, note the tank psi. Start a stop watch & after 5 minutes, note the tank pressure. If tank pressure drops more the 2psi, check for leaks around/inside the compressor housing. Repair as needed.
Step 6: With tank pressure around 95psi, compressor not running, and 30psi commanded in all circuits, no the tank psi. Start a stop watch & after 5 minutes, note the tank pressure. If tank pressure drops more the 2psi, check for leaks on the row cleaner fittings, tees, and dump valves. Repair as needed.

AIR COMPRESSOR PRE-OPERATING TEST PROCEDURE:
Before beginning this test, run the compressor system leak test and ensure it passes. There should be virtually no leaks in the tank circuit before performing this test. Use a stop watch to time the compressor’s recovery time. Start the time when the tank gauge reaches 85psi & the compressor turns on. Stop the time when the compressor shuts off at 95psi. If the time is greater than 60 seconds, there is a leak or the compressor is worn. Repair as needed.

Proper Operation Settings

Dump Valve Delay
To set the dump valve delay, start at the operating screen, press Menu, select Set Up, press Enter to edit, & use the following guide to set to your planter size:

Non Split Row Planters
- 6-12 row planters - .5 seconds
- 16-24 row planters - .75-1.5 seconds
- 32-36 row planters - 1.75 – 2 seconds
- 48-54 row planters - 2.25-2.5 seconds

Split Row Planters
- 6/11, 6/12, 8/15, or 8/16 planters - .5 – .75 seconds using only corn rows, .75 – 1.5 seconds when using all rows
- 12/23 or 12/24 planters - .5 – .75 seconds using only corn rows, 1.75 – 2 seconds when using all rows
- 16/31 or 16/32 planters - .75 – 1 seconds using only corn rows, 1.75 – 2 seconds when using all rows
- 24/47 or 24/48 planters - 1.25 – 1.5 seconds using only corn rows, 2.25 – 2.5 seconds when using all rows

Note: When the dump valve delay is set properly, the action of the residue managers (RM) will be as follows:
- Pressing the Roman numeral I button (up indicator light on) should raise all RMs
- Pressing the Roman numeral I button (up indicator light off) will lower RMs to half travel & then settle into position

Air Pressure Settings
Residue Managers Only - A common question is “What pressures should I start out at?” A good starting pressure setting would be 35psi Up Pressure, 30psi Down Pressure, & 32psi Wheel Track(WT). This particular setting will give each row cleaner a nice sturdy float. If this pressure setting doesn’t remove enough residue or trenches/digs furrows, adjust the settings accordingly until the row cleaner is doing exactly what you want it to do. If the row cleaner is trenching, lessen the down pressure or increase the up pressure. If not enough residue is removed, lesson the up pressure or increase the down pressure. Once a setting is found, hold the desired preset button (P1-P5) until saved. Each field may require a different setting even though field conditions seem the same. For example, if you use a setting for one no-till field planting corn in soybean residue, you may find that the setting used for the next field planting corn in soybean residue in no-till conditions may be different. The reason may be the amount of residue, soil types, moisture amounts, etc.

Residue managers/Coulter Combos - A common question is “What pressures should I start out at?” A good starting pressure setting would be 40psi Up Pressure, 35psi Down Pressure, & 37psi Wheel Track (WT). This particular setting will give each row cleaner a nice sturdy float. If this pressure setting doesn’t remove enough residue or trenches/digs furrows, adjust the settings accordingly until the row cleaner is doing exactly what you want it to do. If the row cleaner is trenching, lessen the down pressure or increase the up pressure. If not enough residue is removed, lesson the up pressure or increase the down pressure. Once a setting is found, hold the desired preset button (P1-P5) until saved. Each field may require a different setting even though field conditions seem the same. For example, if you use a setting for one no-till field planting corn in soybean residue, you may find that the setting used for the next field planting corn in soybean residue in no-till conditions may be different. The reason may be the amount of residue, soil types, moisture amounts, etc.
Maintenance

2940 SYSTEM MAINTENANCE

Step 1: Remove the pre-cleaner from the filter cover. Remove the filter cap by turning the cap clockwise.
Step 2: Clean the pre-cleaner & filter.
Step 3: Install the filter & filter cap, placing the tab in the slots & turning the cap counter clockwise. Make sure the breather hole on the filter cap is facing down. Install the pre-cleaner.

DAILY
Check air filter cleanliness, clean/replace as needed.
Check airlines for air leaks and repair as needed.

SEASONALLY/200 COMPRESSORS
Replace air filter element (Part number for filter is 2940-395, part number for filter pre-cleaner is 2940-396)

BEARING ASSEMBLY AND LUBRICATION

Practice Safety
Understand & practice safe service procedures before doing work. Follow ALL the operating, maintenance & safety information in the equipment operator manual. Clear the area of bystanders, especially small children, when performing any maintenance or adjustments. Keep work area clean & dry. Use adequate lighting for the job. Use only tools, jacks & hoists of sufficient capacity for the job. Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, & clothing from power-driven moving & rotating parts. Disengage all power & operate controls to relieve pressure. Lower equipment to the ground and stop the engine. Remove the key. Wait for all moving parts to stop before servicing, adjusting, repairing or unplugging. Securely support any machine elements with blocks or safety stands that must be raised for service work. Keep all parts in good condition and properly installed. Fix damaged equipment immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris. Make sure all guards are in place and properly secured when maintenance work is completed.

Assembly

NOTE: Be certain to align the grease fitting with the slot in the wheel and the hubcap so that the grease can flow freely to the cavity. The bearing is sealed but the cavity must be filled so that dirt, moisture, & debris do not enter the cavity & ruin the seal.

Grease must fill this hub cap cavity.
MAINTENANCE

Lubrication

**CAUTION:** To help prevent serious injury or death to you or others caused by unexpected movement, service machine on a level surface. Lower machine to ground or sufficiently lock or block raised machine before servicing. If machine is connected to tractor, engage parking brake & place transmission in “PARK”, shut off engine and remove key. If machine is detached from tractor, block wheels & use shop stands to prevent movement.

**CAUTION:** Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval. Use a multi-purpose lithium, water resistant, moderate speed, & NLGI grade #2 grease. Other greases may be used if they meet the following NLGI Performance Classification: GC-LB.

**IMPORTANT:** Some types of grease thickener are not compatible with others. Consult your grease supplier before mixing different types of grease.

Alternative Lubricants

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in the operator's manual. If there are any questions, consult Yetter Manufacturing Co. to obtain latest information and recommendation.

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>OUNCES OF GREASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2967-404</td>
<td>13” TAPER TOOTH R.M. WHEEL</td>
<td>1.12 OZ</td>
</tr>
<tr>
<td>2967-602</td>
<td>13” SHARK TOOTH R.M. WHEEL</td>
<td>1.12 OZ</td>
</tr>
<tr>
<td>2967-186</td>
<td>FLOATER WHEEL KIT W/R.M. WHEEL</td>
<td>2.08 OZ</td>
</tr>
<tr>
<td>2967-596</td>
<td>HEAVY DUTY OR BEVEL R.M. WHEEL W/ FLOATER WHEEL KIT</td>
<td>2.40 OZ</td>
</tr>
</tbody>
</table>

Storing Lubricants

Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

Lubrication Symbols

Lubricate with grease at hourly interval indicated on symbol.

Lubrication Intervals

Residue Manager

Residue Manager/Coulter Combo

**IMPORTANT:** The recommended service intervals are based on normal conditions; severe or unusual conditions may require more frequent lubrication.
MAINTENANCE
- Perform each lubrication and service procedure at the beginning and end of each season.
- Clean grease fittings before using grease gun, to avoid injecting dirt and grit into the bearing.
- Replace any lost or broken fittings immediately. If a fitting fails to take grease, remove and clean thoroughly.
- Replace fitting if necessary. Also check for failure of adjoining parts.

BEARING REPLACEMENT INSTALLATION
1. When assembling the spoke wheels, bearing assembly and hubcap, be sure to align the grease transfer hole in the spoke wheel with the groove in the hubcap and hole in the hub to allow grease passage.
2. Assemble the wheels, hubs and caps.
3. Grease the wheel/hub/bearing assembly.

Storing the Equipment
Store the machine in an area away from human activity
Store the machine in RAISED position.
Install service locks on all wheel cylinders.

At the end of the season, the machine should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent down time at the start of the next season. Store the machine under cover with all parts in operating condition.
- Clean machine thoroughly to remove all dirt, debris, and crop residue, which would hold moisture and cause rusting.
- Inspect machine for worn or broken parts. See your Yetter Farm Equipment dealer during the off-season so that parts or service can be acquired when machine is not needed in the field.
- Lubricate bearings as outlined in the Lubrication section.
- Paint all parts which are chipped or worn and require repainting.
- Store machine in a clean, dry place with the planting unit out of the sun.
- If the machine cannot be stored inside, cover with a waterproof tarpaulin and tie securely in place.
- Do not allow children to play on or around the machine.

AIR BAG REPLACEMENT

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>TORQUE MOUNT</th>
<th>BOLT SIZE</th>
<th>THREAD LOCK</th>
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<tbody>
<tr>
<td>6” AIR BAG 2940-386</td>
<td>115 ± 15 LB-IN</td>
<td>5/8-11 HEX NUT GR 5</td>
<td>BLUE THREAD LOCK</td>
</tr>
<tr>
<td>8” AIR BAG 2940-388</td>
<td>36 ± 12 LB-IN MAX</td>
<td>5/16”-18 X 3/4” HHCS GR 2</td>
<td>BLUE THREAD LOCK</td>
</tr>
</tbody>
</table>
# PARTS IDENTIFICATION

**RESIDUE MANAGER WHEEL ASSEMBLY**

(RIGHT HAND WHEEL ASSEMBLY IS SHOWN)  
(FLIPPING THE WHEEL (ITEM 11) WILL MAKE  
A LEFT HAND WHEEL ASSEMBLY EXCEPT  
FOR BEVELED WHEELS)

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>2505-207</td>
<td>5/16-18 X 1 ¼ CAR BLT GR5 ZP</td>
<td>4</td>
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<tr>
<td>2</td>
<td>2505-208</td>
<td>5/16-18 X 1 ½ CAR BLT GR5 ZP (For use with Heavy Duty Wheel)</td>
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<tr>
<td>3</td>
<td>2505-209</td>
<td>5/16-18 X 1 ¾ CAR BLT GR5 ZP (For use with Floater Wheel)</td>
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<tr>
<td>2</td>
<td>2533-110</td>
<td>¼&quot; SELF TAP ZERK (NOT SHOWN)</td>
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<td>3</td>
<td>2550-069</td>
<td>SEAL, TRIPLE LIP, NTI# 1812-5</td>
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<td>4</td>
<td>2570-594</td>
<td>BEARING, 2 ROW, NTN DF0654L</td>
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<td>5</td>
<td>2570-715</td>
<td>BEARING INSERT, TRASHMASTER</td>
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<td>6</td>
<td>2570-740</td>
<td>D-BOLT, FLANGED, 5/8-11 X 2.812 GR 8</td>
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<td>7</td>
<td>2965-128</td>
<td>HUB AND BEARING ASSEMBLY, 4 BOLT</td>
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<td>8</td>
<td>2965-351</td>
<td>HUB CAST, MACHINED, 4 BOLT</td>
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<td>9</td>
<td>2965-352</td>
<td>HUB CAP CASTING, 4 BOLT, BLACK</td>
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<td>2967-555</td>
<td>FLOATER WHEEL</td>
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<td>11</td>
<td>2967-404</td>
<td>13&quot; TAPER TOOTH SPOKE WHEEL</td>
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<td>12</td>
<td>2967-596</td>
<td>3/8 TAPER TOOTH SPOKE WHEEL</td>
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<td>13</td>
<td>2967-602</td>
<td>13&quot; SHARK TOOTH WHEEL</td>
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<td>14</td>
<td>2967-602</td>
<td>13&quot; BEVELED WHEEL, LH</td>
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<td>13&quot; BEVELED WHEEL, RH</td>
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<td>5/16-18 HEX FLANGE SERRATED NUT</td>
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<td>17</td>
<td>2520-452</td>
<td>5/8-11 HEX NUT</td>
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<td>18</td>
<td>2525-451</td>
<td>5/8 LOCKWASHER</td>
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# 2940-049 PARTS IDENTIFICATION
(For John Deere Planters with Heavy Duty Double Disc Scrapers)

<table>
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<tr>
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<td>2520-357</td>
<td>½-13 HEX LOCK NUT ZP</td>
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<td>2526-355</td>
<td>½ FLAT WASHER HARDENED ZP</td>
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<td>2526-402</td>
<td>9/16ID X 1-3/4 OD X 1/4MBZP</td>
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<tr>
<td>5</td>
<td>2940-220</td>
<td>MOUNT EXTENSION W.A.</td>
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# 2940-190 Parts Identification

**2940-190**

Pneumatic R.M. Mount Assembly for JD 1700, 7200, AGCO 9000

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<th>Description</th>
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<td>2502-233</td>
<td>3/8-16 X 3 1/4 HHCS Gr 5 ZP</td>
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<tr>
<td>3</td>
<td>2502-245</td>
<td>3/8-16 X 1-3/4 HHCS Gr 5 ZP</td>
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<tr>
<td>4</td>
<td>2502-254</td>
<td>3/8-16 X 4 HHCS Gr 5 ZP</td>
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<td>5</td>
<td>2502-260</td>
<td>3/8-16 X 4-1/2 HHCS Gr 5 ZP</td>
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<td>6</td>
<td>2520-455</td>
<td>5/8-11 Jam Hex Nut ZP Patch Loc, Gr 5</td>
<td>2</td>
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<td>7</td>
<td>2526-201</td>
<td>5/16 Std Flatwasher ZP</td>
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<td>8</td>
<td>2940-210</td>
<td>Adjustment Tube W.A.</td>
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<td>9</td>
<td>2940-211</td>
<td>Upper Link W.A.</td>
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<td>10</td>
<td>2940-213</td>
<td>Lower Parallel Arm W.A.</td>
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<td>11</td>
<td>2940-214</td>
<td>Air Bag Bracket W.A.</td>
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<td>Standard Mount Plate W.A. JD 1700, 7200, AGCO 9000</td>
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<td>2940-309</td>
<td>Upforce Top Mount</td>
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<td>14</td>
<td>2940-340</td>
<td>Air Bag Cap Plug</td>
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<td>15</td>
<td>2940-386</td>
<td>Shorter Air Bag</td>
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<td>16</td>
<td>2940-388</td>
<td>Larger Air Bag</td>
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<td>2940-472</td>
<td>Bushing</td>
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<td>2940-473</td>
<td>.750&quot; OD X .406&quot; X 2&quot; Bushing</td>
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<td>2940-590</td>
<td>Yetter Vertical Decal 3&quot; X 1&quot;</td>
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<td>22</td>
<td>K40003</td>
<td>Nut, Inch Prevailing Torque</td>
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Manufactured 08/2015 – Present
## 2940-192 PARTS IDENTIFICATION

PNEUMATIC R.M. MOUNT ASSEMBLY FOR
JD 7000, AGCO 6000, 8000, KINZE 2000, 3000, 4900

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
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<tbody>
<tr>
<td>1</td>
<td>2502-200</td>
<td>5/16-18 X 3/4 HHCS W/THD LCK GR 2 ZP</td>
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<td>2502-233</td>
<td>3/8-16 X 3 1/4 HHCS GR 5 ZP</td>
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<td>3</td>
<td>2502-245</td>
<td>3/8-16 X 1-3/4 HHCS GR 5 ZP</td>
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<tr>
<td>4</td>
<td>2502-254</td>
<td>3/8-16 X 4 HHCS GR 5 ZP</td>
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<td>2502-260</td>
<td>3/8-16 X 4-1/2 HHCS GR 5 ZP</td>
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<td>2520-455</td>
<td>5/8-11 JAM HEX NUT ZP PATCH LOC, GR 5</td>
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<td>7</td>
<td>2526-201</td>
<td>5/16 STD FLAT WASHER ZP</td>
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<td>2940-210</td>
<td>ADJUSTMENT TUBE W.A.</td>
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<td>9</td>
<td>2940-211</td>
<td>UPPER LINK W.A.</td>
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<td>2940-213</td>
<td>LOWER PARALLEL ARM W.A.</td>
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<td>AIR BAG BRACKET W.A.</td>
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<td>2940-309</td>
<td>UPFORCE TOP MOUNT</td>
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<td>2940-340</td>
<td>AIR BAG CAP PLUG</td>
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<td>15</td>
<td>2940-386</td>
<td>SHORTER AIR BAG</td>
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<td>16</td>
<td>2940-388</td>
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**MANUFACTURED 08/2015 – PRESENT**
## 2940-001 & 2940-002 Parts Identification

**2940-001-ST-FW & 2940-002-ST-FW**

Pneumatic Residue Manager Wide

JD 1700 & 7200, AGCO 9000

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**2940-003 & 2940-004 PARTS IDENTIFICATION**

**2940-003 & 2940-004**

**CNH PNEUMATIC ASSEMBLY**

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## 2940-005 & 006 PARTS IDENTIFICATION

**2940-005-ST-FW & 2940-006-ST-FW**

**PNEUMATIC RESIDUE MANAGER, WIDE**

JD 7000, AGCO 6000, 8000, KINZE 2000, 3000, 4900

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## 2940-007-Y15 Parts Identification

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**COULTER SUBASSEMBLY FOR**  
**JD 7000, AGCO 6000, 8000, KINZE 2900, 3000, 4000**

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**COULTER SUBASSEMBLY FOR**  
**JD 1700, 7200, AGCO 9000**

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## 2940-136 Dump Valve Kit

![Dump Valve Kit Diagram](image_url)

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<tr>
<td>Problem</td>
<td>Cause</td>
<td>Corrective Action</td>
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| Tank pressure drops when compressor shuts off                           | 1. check valve is leaking  
2. loose pneumatic connections  
3. water separator drain valve or head pressure relief valve | 1. replace check valve  
2. perform leak test & fix as needed  
3. replace water separator drain valve or head pressure relief valve |
| Compressor runs continuously & air flow lower than normal               | 1. excessive air usage  
2. loose pneumatic connections  
3. worn piston or inlet valve  
4. clogged air filter element  
5. pressure switch failure  
6. defective safety valve  
7. pressure On Valve leaking | 1. decrease air usage  
2. perform leak test & fix as needed  
3. replace/rebuild compressor  
4. replace/clean air filter element  
5. replace pressure switch  
6. replace safety valve  
7. deactivate the system, turn all pressures to 0psi, reactivate the system |
| Excessive moisture in discharge                                         | 1. excessive water in the air tank  
2. high humidity | 1. manually drain tank holding down the down arrow on the cab controller  
2. move compressor to low humidity area |
| Compressor will not run                                                 | 1. no power/breaker tripped  
2. system deactivated  
3. motor overheats  
4. pressure switch failure  
5. on/off solenoid failure  
6. VDM failure | 1. check power connections/breaker  
2. press ENTER – AIR ON displayed  
3. let compressor cool, replace if needed  
4. replace pressure switch  
5. replace solenoid  
6. replace VDM |
| Excessive knocking or rattling                                          | 1. loose mounting bolts  
2. worn bearing  
3. cylinder or piston is worn | 1. tighten bolts  
2. replace compressor  
3. rebuild compressor |
| No air output from the RU, RD, and WT ports even though pressure is     | 1. no power/breaker tripped  
2. system deactivated  
3. J3 connector on VDM plugged in upside down  
4. improperly functioning PQE  
5. communication harness connection issue | 1. check power connections/breaker  
2. press ENTER – AIR ON displayed  
3. unplug J3 connector, check tab/slot sizes, reinstall J3 connector properly  
4. replace PQE  
5. check all communication harness connections, be sure all internal pins seated |
| No ECU/VDM present displays on Cab Controller                          | 1. improper communication harness connection between Cab Controller and VDM | 1. start at the 6 pin connector on the back of the Cab Controller and inspect all connectors and connections to the VDM |
| The 2940-162 Dump Valve Harness is not labeled on the 4) 2 pin         | labels missing on the 2 pin cables on the harness | label as follows:  
RM UP DUMP → Yellow/Black  
RM DOWN DUMP → Orange/Black  
AUX 3 → White/Black  
AUX 4 → Purple/Black |
| No tank pressure reading on cab controller                              | pressure transducer failure | 1. replace pressure transducer  
2. check pressure transducer connections |
NOTES:
Our name
Is getting known

Just a few years ago, Yetter products were sold primarily to the Midwest only. Then we embarked on a program of expansion and moved into the East, the South, the West and now north into Canada. We're even getting orders from as far away as Australia and Africa.

So, when you buy Yetter products...you’re buying a name that’s recognized. A name that’s known and respected. A name that’s become a part of American agriculture and has become synonymous with quality and satisfaction in the field of conservation tillage.

Thank you.