

# NEW HOLLAND SP Series Planter REPAIR MANUAL

How to Use This Manual  
Master Table of Contents  
Fault Code Index



NEW HOLLAND

**SERVICE**

## Repair Manual 87057742

### MASTER TABLE OF CONTENTS

|                                                                             |    |
|-----------------------------------------------------------------------------|----|
| How to Use this Manual                                                      | i  |
| Master Table of Contents                                                    | 1  |
| Fault Code Index                                                            | 85 |
| Pivot-Transport Planters                                                    | 85 |
| Non-Gateway Equipped<br>Mounted Stacker - Mounted Rigid<br>- Trailing Rigid | 91 |
| Gateway Equipped<br>Mounted Stacker - Mounted Rigid<br>- Trailing Rigid     | 94 |
| Variable Drive - Trailing Rigid                                             | 97 |

You can order Repair Manual Books separately or you can order a complete Repair Manual (Publication Number 87057742).

## How to use this manual

Welcome to your revised SP Series Planter repair manual.

The information in this manual is structured using the Integrated Coding Environment (ICE). ICE is the backbone for a new system in which all repair information is created, stored, retrieved and distributed from the Technical Information Database (TIDB).

All information within the manual is assigned an ICE code. The first part of the code describes the functional location of the subject matter, the second part – the Infotype – describes the information category and type.

| Functional Location     | Infotype |
|-------------------------|----------|
| (L.10.H.28 - F.10.A.10) |          |

RH05A066

This new coding structure and database were created to help you locate repair information more rapidly.

This printed manual is one medium in which the information is distributed. The same database also generated the fault code diagnostic information for the planter EST (Electronic Service Tool) and the CD-ROM version of this manual with their different capabilities. The same database will one day provide access to this information through ASIST.

## Section

This manual is divided into functional Sections. Only those sections relevant to planter functions are included from the total group available for all repair manuals in the New Holland family of products. The table below indicates the sections used:

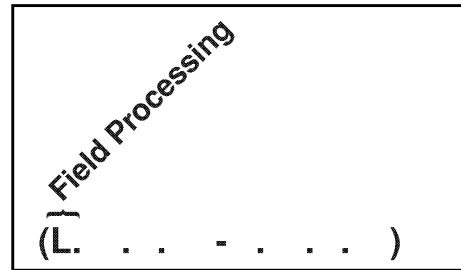
| PRODUCT | SECTION                  |  |  |   |  |   |  |  |  |   |
|---------|--------------------------|--|--|---|--|---|--|--|--|---|
|         | A – Distribution Systems |  |  |   |  |   |  |  |  |   |
|         | B – Power Production     |  |  |   |  |   |  |  |  |   |
|         | C – Power Train          |  |  |   |  |   |  |  |  |   |
|         | D – Traveling            |  |  |   |  |   |  |  |  |   |
|         | E – Body and Structure   |  |  |   |  |   |  |  |  |   |
|         | F – Frame Positioning    |  |  |   |  |   |  |  |  |   |
|         | G – Tool Positioning     |  |  |   |  |   |  |  |  |   |
|         | H – Working Arm          |  |  |   |  |   |  |  |  |   |
|         | J – Tools and Couplers   |  |  |   |  |   |  |  |  |   |
|         | K – Crop Processing      |  |  |   |  |   |  |  |  |   |
|         | L – Field Processing     |  |  |   |  |   |  |  |  |   |
| Planter | X                        |  |  | X |  | X |  |  |  | X |

Each section is identified by a letter in ICE coding: A, D, F or L.

## How to use this manual

All information included in a section is first identified with the letter for the section. For example, repair information related to frame positioning is always initially identified with the letter “F”.

Repair information for field processing is always initially identified with the letter “L”.



RH05A065

The content of a section is determined by its functional definition:

| Section                     | Letter   | Description                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Distribution Systems</b> | <b>A</b> | Distribution systems are the main systems which interact with most of the planter components. Hydraulic schematics and valve block information are found in this section. Planter and farming system electrical schematics and harnesses, as well as controller, connector, fuse and relay information, are located in this section.         |
| <b>Traveling</b>            | <b>D</b> | Traveling concerns the components which make movement of the planter possible – that is, wheels and axles.                                                                                                                                                                                                                                   |
| <b>Frame Positioning</b>    | <b>F</b> | Frame positioning concerns the components which move the planter into planting position or into road transport position. The information is organized by the movement: lifting, swinging, extending or folding. All information related to the cylinders and solenoid valves which make these movements possible is located in this section. |
| <b>Field Processing</b>     | <b>L</b> | Field processing contains all the information unique to planting and the SP Series planters; all information on seeding and chemical application components, as well as the vacuum, air and marker system components, is located here.                                                                                                       |

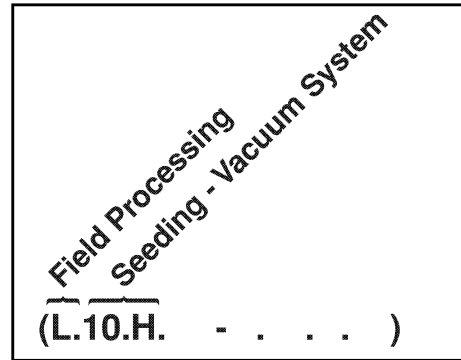
## Chapter

The information within a section is sub-divided into functional Chapters. Many chapter headings are generic and could apply to almost any product in the New Holland family – for example, Primary hydraulic power, Electrical power or Lighting system.

Some chapter headings, however, are very product specific and apply to fewer products – “Marking system” for planters and sprayers, for example.

## How to use this manual

Each chapter is identified by a number/letter combination. The combination for Seeding – Vacuum System is “10.H.”



RH05A064

The chapter breakdown for section L – Field processing – is shown below. The chapter identifier for Seeding Vacuum System is circled.

|                                                                                                                                                 |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>SEEDING Mechanical system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                     | L.10.B        |
| <b>SEEDING Fan system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                            | L.10.D        |
| <b>SEEDING Air system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                            | L.10.E        |
| <b>SEEDING Metering system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                       | L.10.F        |
| <b>SEEDING Vacuum system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                         | <b>L.10.H</b> |
| <b>SEEDING Marking system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                        | L.10.J        |
| <b>CHEMICAL APPLICATORS Granular chemical system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport | L.40.B        |
| <b>CHEMICAL APPLICATORS Liquid fertilizer system</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport | L.40.C        |
| <b>CHEMICAL APPLICATORS Fertilizer applicators</b><br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport   | L.40.F        |

RH05A102

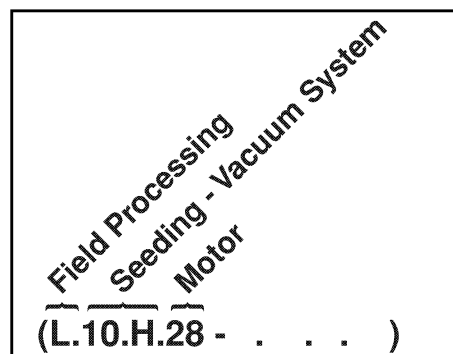
## Information Unit

Each chapter is composed of information units (IU). An information unit may be best understood as an information container for any system or component on the planter which requires some type of repair data. As such, an information unit can be of any length, from a few lines to 30 or more pages.

An information unit has three elements: a subject matter, a location code and an Infotype.

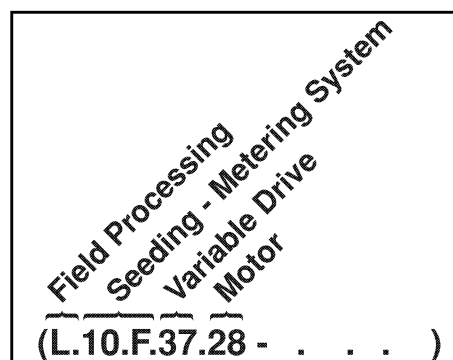
## How to use this manual

A component might be cylinder, motor, fuse or relay. In this example, the location code for the motor in the vacuum system used when seeding is “28”.



RH05A064

The code for a component is not always so simple and direct. In this example, the motor is a component of a variable drive system (rather than a mechanical drive system) on the seed metering system. Thus the location for the motor is qualified as a part of the variable drive system: “37.28”.



RH05A064

## Infotype

The Infotype describes both the category and type of information in the information unit.

There are four information categories within the ICE structure which may or may not be used within every chapter. The four categories are used to organize information in the chapter: technical data is presented first, followed by functional data, service data and then diagnostic data.

Technical Data is usually a specification for a system/component or a special tool to use with a component – for example, capacity, torque value, flow rate or special wrench.

| DISTRIBUTION SYSTEMS - PRIMARY HYDRAULIC POWER SYSTEM                                           |              |         |  |
|-------------------------------------------------------------------------------------------------|--------------|---------|--|
| Valve block - Torque (A.10.A.45 - D.20.A.10)                                                    |              |         |  |
| SP400 Trailing Rigged Multidrive, SF400 Trailing Rigged Variable Drive, SP200 Pivotal Transport |              |         |  |
| Bulk Fill Valve Adapter Fittings and Hose Connections                                           |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| B2, T1                                                                                          | 104 - 111 Nm | 77 - 82 |  |
| S1, P1                                                                                          | 47 - 54 Nm   | 35 - 40 |  |
| Coupler Bar Valve Adapter Fittings and Hose Connections                                         |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| HEAD                                                                                            | 34 - 41 Nm   | 25 - 30 |  |
| L2, L.R. ROD                                                                                    | 20 - 27 Nm   | 15 - 20 |  |
| Lift and Pivot Valve Adapter Fittings and Hose Connections                                      |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| HR1, H1, L, F, FR, HR, H, LR, L1                                                                | 34 - 41 Nm   | 25 - 30 |  |
| LR1                                                                                             | 47 - 54 Nm   | 35 - 40 |  |
| S, R, S1, R1                                                                                    | 47 - 54 Nm   | 35 - 40 |  |
| CR, HL, FL, L2                                                                                  | 20 - 27 Nm   | 15 - 20 |  |
| Liquid Fertilizer Valve Adapter Fittings and Hose Connections                                   |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| P, M                                                                                            | 34 - 41 Nm   | 25 - 30 |  |
| L.S.                                                                                            | 20 - 27 Nm   | 15 - 20 |  |
| Multivalve Adapter Fittings                                                                     |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| P                                                                                               | 47 - 54 Nm   | 35 - 40 |  |
| M1, M2, T                                                                                       | 81 - 95 Nm   | 60 - 70 |  |
| S1, S2, S3, S4                                                                                  | 20 - 27 Nm   | 15 - 20 |  |
| Multivalve Hose Connections                                                                     |              |         |  |
| Port Used                                                                                       | kPa          | lb ft   |  |
| T, M2                                                                                           | 104 - 111 Nm | 77 - 82 |  |
| P                                                                                               | 72 - 79 Nm   | 53 - 58 |  |
| M1                                                                                              | 47 - 54 Nm   | 35 - 40 |  |
| S1, S2, S3, S4                                                                                  | 29 - 33 Nm   | 21 - 24 |  |

RH05A097

## How to use this manual

Functional Data is usually a description of how a system, sub-system or component works. The description may be dynamic (during operation) or static. The system or component may be electrical, electronic, hydraulic or mechanical.

### SEEDING Vacuum system - Dynamic description (L.10.H - C.30.A.10)

SP540 Push-Transport Split Row Planters

#### Hydraulic Schematic Reference

|                                                                           |                                                                       |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------|
| RH Multivalve - Tractor Remote Driven                                     | Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01) |
| LH Multivalve - Tractor Remote Driven                                     | Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02) |
| 83.3 L/min (22 US gpm) PTO Pump Driven LH Multivalve                      | Hydraulic line - Hydraulic schematic frame 03 (A.10.A.36 - C.20.H.03) |
| 136.3 L/min (36 US gpm) PTO Pump Driven LH Multivalve and Bulk Fill Valve | Hydraulic line - Hydraulic schematic frame 04 (A.10.A.36 - C.20.H.04) |

Split Row and 24 Row 20 planters are equipped with two multivalve blocks: a left hand and right hand multivalve. Each multivalve controls one vacuum fan.

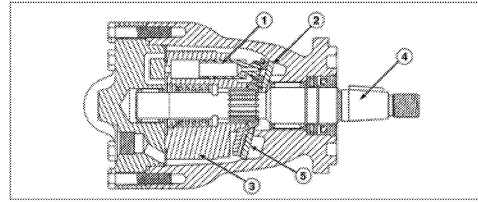
The left hand multivalve controls Vacuum Fan A. Vacuum Fan A is the front fan on Split Row planters which provides vacuum to hold the seeds on the disks for Seed Sections 2 and 3. Vacuum Fan A is the left hand wing fan on 24 Row 20 planters which provides vacuum to hold the seeds on the disks for Seed Sections 1 and 2.

The right hand multivalve controls Vacuum Fan B. Vacuum Fan B is the rear fan on Split Row planters which provides vacuum to hold the seeds on the disks for Seed Sections 1 and 4. Vacuum Fan B is the right hand wing fan on 24 Row 20 planters which provides vacuum to hold the seeds on the disks for Seed Sections 3 and 4.

On Split Row and 24 Row 20 planters, the right hand multivalve is always tractor remote driven. The left hand multivalve may be tractor remote driven or PTO pump system driven. When tractor remote driven, the supply and return couplers for the RH multivalve are color-coded green; the supply and return couplers are color-coded blue for the LH multivalve.

A tractor remote valve or a PTO pump system controls the flow of hydraulic fluid to each multivalve, which in turn controls flow to each vacuum fan motor.

The hydraulic motor is a constant volume, axial piston motor.



The high pressure fluid enters the right hand port of the motor. This forces the pistons (1) on that side of the motor to move outward. The pistons contact a fixed-angle swash plate (2). As they move outward, they cause the motor block (3) to rotate, which drives the shaft (4) connected to the vacuum fan impeller.

RH05A098

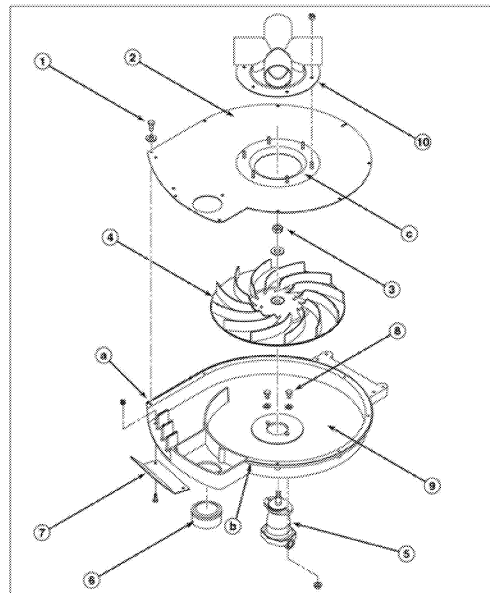
Service Data is typically a service instruction. Remove, disassemble, test, inspect, assemble or install are primary examples.

### Motor - Install (L.10.H.28 - F.10.A.15)

SP180 Mounted Stacker, SP280 Mounted Right, SP400 Trailing Right, SP540 Push-Transport

Prior operation: Motor - Reseal (L.10.H.28 - F.75.C.15)

Prior operation: Motor - Reseal (L.10.H.28 - F.75.C.15)



RH05A099

## How to use this manual

Diagnostic Data – Troubleshooting information is a prime example. The troubleshooting may be for a fault code, electrical problem, hydraulic problem, mechanical problem or field processing problems.

**Electrical control Solenoid - Open circuit (L.10.H.90.11 - G.30.B.50)**  
SP500 Pave Transport

7013 - MCC1 detects that the Vacuum Fan A solenoid valve has an open circuit.

**Cause:**  
 (See above)

**Possible failure modes:**

1. Fuse 12 blown.
2. Loose connector or bent pin.
3. Vacuum Fan A solenoid valve has an open circuit.
4. Broken wire in electrical circuit.
5. Failed MCC1 controller.

**Solution:**

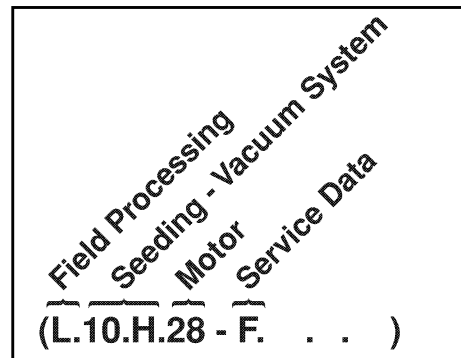
1. Find out if the fault code is still active.  
 Turn system power ON.  
 Clear all MCC1 fault codes.  
 Cycle system power.  
 A. Fault code 7013 is logged. Go to Step 2.  
 B. Fault code is not logged. Return unit to field operation and monitor for recurring fault.
2. Check Fuse 12.  
 Turn system power OFF.  
 Remove Fuse 12 and visually inspect. Use a multimeter to check resistance through the fuse. See Fuse and relay box Fuse - Component diagram frame 98 (A.30.A.80.81 - G.20.F.08).  
 A. Fuse blown (infinite resistance). Replace fuse and return unit to field operation.  
 B. Fuse not blown. Go to Step 3.
3. Check for loose connector or bent pins at Connector P10 to Fuse Box J1 (Black).  
 Turn system power ON.  
 Clear all MCC1 faults codes.  
 Turn system power OFF.  
 Disconnect Connector P10 to Fuse Box J1 (Black).  
 Inspect pins/cavities C, E, F and G on the connectors. Clean the connectors. Repair or replace bent or broken pins.  
 Reinstall the connector.  
 Turn system power ON.  
 A. Fault code 7013 is logged. Go to Step 4.

RH05A100

The Infotype explains which category the information unit falls into by the initial letter:

D = technical data,  
 C = functional data,  
 F = service data and  
 G = diagnostic data.

Using the previous example, the letter “F” indicates this information unit contains a service instruction on the motor.

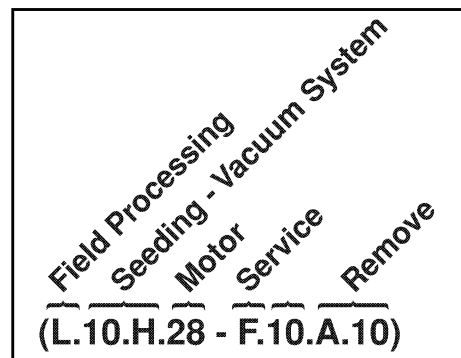


RH05A06

The rest of the Infotype explains the type of service:

“F.10” indicates the service to be performed is “basic”; other basic service types are disassemble, assemble and install.

“A.10” identifies this service operation as “Remove”.



RH05A061

## Contents

Master contents pages are included at the beginning of the repair manual. A chapter contents page is included in every section, and every chapter has a contents page for all information units.

| Infotype Category                   | Model                                                                                                               | Configuration        |                |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------|----------------|
| <b>SEEDING Vacuum system - 10.H</b> |                                                                                                                     |                      |                |
| FUNCTIONAL DATA                     |                                                                                                                     |                      |                |
|                                     | SEEDING Vacuum system - Dynamic description (L.10.H - C.30.A.10)                                                    |                      | 5              |
|                                     | SP580 Pivot-Transport 12 and 16 Row Planters                                                                        |                      |                |
|                                     | SEEDING Vacuum system - Component localisation (L.10.H - C.40.B.20)                                                 |                      | 10             |
|                                     | SP580 Pivot-Transport Split Row Planters                                                                            |                      |                |
|                                     | SEEDING Vacuum system - Dynamic description (L.10.H - C.30.A.10)                                                    |                      | 11             |
|                                     | SP580 Pivot-Transport Split Row Planters                                                                            |                      |                |
|                                     | SEEDING Vacuum system - Dynamic description (L.10.H - C.30.A.10)                                                    |                      | 16             |
|                                     | SP480 Trailing Rigid Variable Drive                                                                                 |                      |                |
|                                     | SEEDING Vacuum system - Dynamic description (L.10.H - C.30.A.10)                                                    |                      | 19             |
|                                     | SP280 Mounted Rigid Mechanical Drive, SP380 Mounted Stacker Mechanical Drive, SP480 Trailing Rigid Mechanical Drive |                      |                |
| Motor                               |                                                                                                                     |                      |                |
|                                     | Motor - Static description (L.10.H.28 - C.30.A.20)                                                                  |                      | 21             |
|                                     | SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid Mechanical Drive                                   |                      |                |
|                                     | Motor - Static description (L.10.H.28 - C.30.A.20)                                                                  |                      | 22             |
|                                     | SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport                                                          |                      |                |
| Fan                                 |                                                                                                                     |                      |                |
|                                     | Fan - Static description (L.10.H.52 - C.30.A.20)                                                                    |                      | 24             |
|                                     | SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport                             |                      |                |
| SERVICE                             |                                                                                                                     |                      |                |
|                                     | Control valve                                                                                                       |                      |                |
|                                     | Control valve Flow control - Disassemble (L.10.H.14.10 - F.10.A.25)                                                 |                      | 25             |
|                                     | SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport                                                          |                      |                |
|                                     | Control valve Flow control - Electrical test (L.10.H.14.10 - F.40.A.50)                                             |                      | 26             |
|                                     | SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport                                                          |                      |                |
|                                     | Control valve Flow control - Visual inspection (L.10.H.14.10 - F.40.A.10)                                           |                      | 27             |
|                                     | SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport                                                          |                      |                |
| Infotype Category                   | ICE Location (L.10.H.14.10 - F.40.A.10)                                                                             | Infotype             | Page Reference |
|                                     | Field processing                                                                                                    | Service              |                |
|                                     | Seeding                                                                                                             | Inspection & Testing |                |
|                                     | Vacuum system                                                                                                       | General              |                |
|                                     | Control valve                                                                                                       | Visual Inspection    |                |
|                                     | Flow control                                                                                                        |                      |                |

## Chapter Contents

RH05A105

Page number references are included for every information unit listed in the Chapter contents. The ICE location and Infotype as well as affected models and configurations are included for each information unit.

## How to use this manual

An alphabetical index is included at the end of every chapter. The same information – page number reference, ICE location, Infotype, model and configuration – is offered in index pages as in chapter contents pages. The information is just organized alphabetically.

| Field processing<br>Seeding<br>Vacuum system<br>Control valve<br>Flow control<br>Service<br>Basic<br>General<br>Assemble | (L.10.H.14.15 – F.40.A.20) | ICE Location | Infotype | Index | Page Reference |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|----------|-------|----------------|
| <b>FIELD PROCESSING - L</b>                                                                                              |                            |              |          |       |                |
| <b>SEEDING Vacuum system - 10.H</b>                                                                                      |                            |              |          |       |                |
| Control valve Coast down check - Assemble (L.10.H.14.15 - F.10.A.20)                                                     |                            |              |          |       | 32             |
| <small>SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport</small>                                                |                            |              |          |       |                |
| Control valve Coast down check - Assemble (L.10.H.14.15 - F.10.A.20)                                                     |                            |              |          |       | 33             |
| <small>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid Mechanical Drive</small>                         |                            |              |          |       |                |
| Control valve Coast down check - Disassemble (L.10.H.14.15 - F.10.A.25)                                                  |                            |              |          |       | 29             |
| <small>SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport</small>                                                |                            |              |          |       |                |
| Control valve Coast down check - Disassemble (L.10.H.14.15 - F.10.A.25)                                                  |                            |              |          |       | 30             |
| <small>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid Mechanical Drive</small>                         |                            |              |          |       |                |
| Control valve Coast down check - Visual inspection (L.10.H.14.15 - F.40.A.10)                                            |                            |              |          |       | 31             |
| <small>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport</small>                   |                            |              |          |       |                |
| Control valve Flow control - Assemble (L.10.H.14.10 - F.10.A.20)                                                         |                            |              |          |       | 28             |
| <small>SP280 Mounted Rigid Variable Drive, SP580 Pivot-Transport</small>                                                 |                            |              |          |       |                |
| Control valve Flow control - Disassemble (L.10.H.14.10 - F.10.A.25)                                                      |                            |              |          |       | 25             |
| <small>SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport</small>                                                |                            |              |          |       |                |
| Control valve Flow control - Electrical test (L.10.H.14.10 - F.40.A.50)                                                  |                            |              |          |       | 26             |
| <small>SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport</small>                                                |                            |              |          |       |                |
| Control valve Flow control - Visual inspection (L.10.H.14.10 - F.40.A.10)                                                |                            |              |          |       | 27             |
| <small>SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport</small>                                                |                            |              |          |       |                |
| <b>Models</b>                                                                                                            | <b>Configuration</b>       |              |          |       |                |

RH05A106

Based on this brief introduction to ICE coding and Infotypes, you have the information you require to understand the contents and index pages.

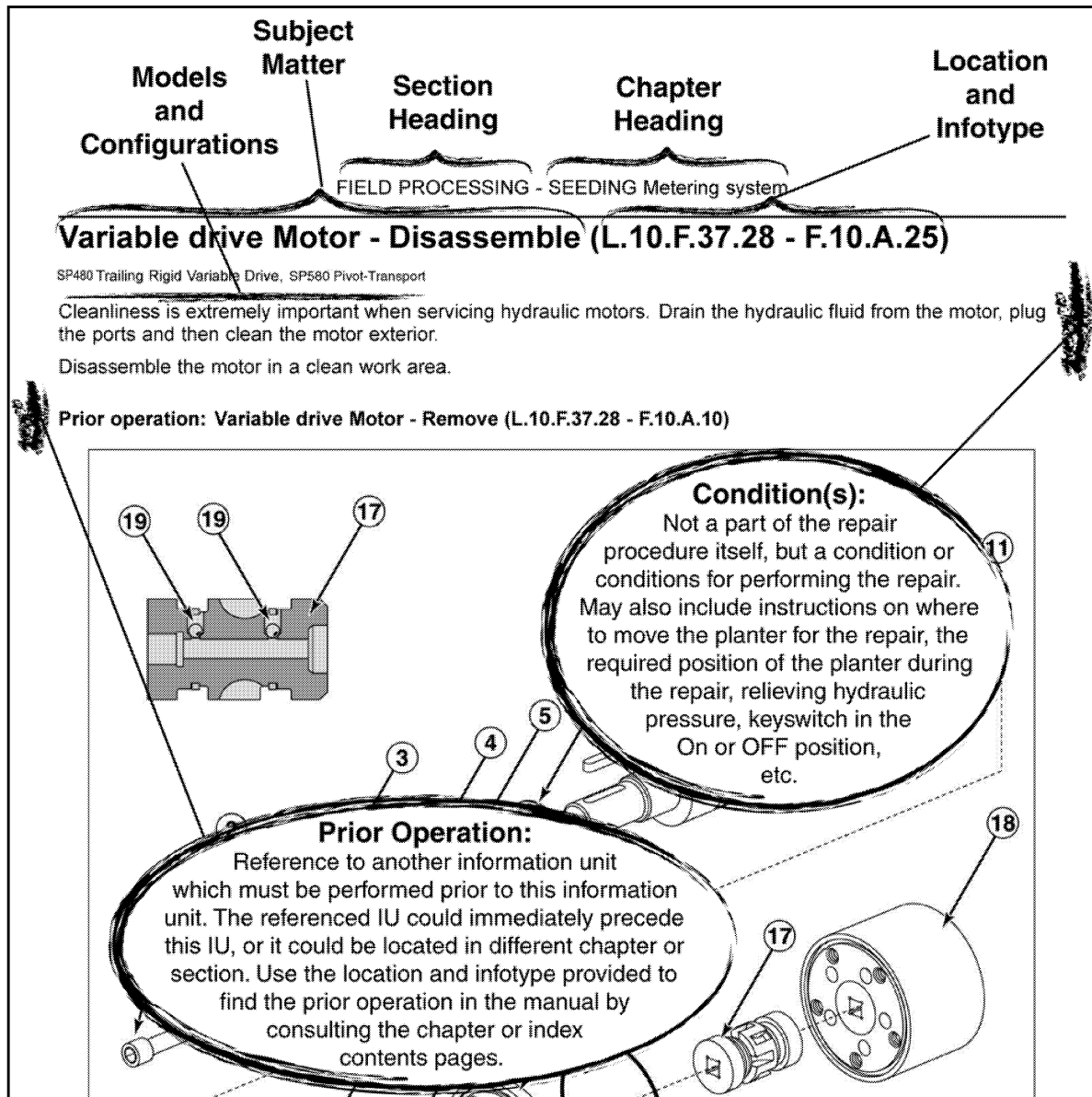
The key shift in your approach to locating information in the manual is to search for information by how a component or system functions on the planter. Think about what the component or system does on the planter rather than a familiar category.

If the planter will not raise or lower, go to the lifting chapter of Frame positioning to find all information on the relays, solenoid valves, sensors and cylinders associated with lifting.



### Information Unit Content

Each page in the manual contains the Section and Chapter titles in the heading at the top of the page to aid your search. After the heading, you'll find the same information as listed on the chapter contents or index page: subject matter, ICE location, Infotype, models and configurations.



The information unit may also contain some new elements – **Conditions, Prior operation or Next operation**. The elements are only found in service IUs. **Conditions** are not a part of the service procedure itself, but provide a conditional context in which the repair is to be performed. For example,

- Work in a clean environment.
- Move the planter to a hard and level surface.
- Lower the planter to planting position.
- Relieve hydraulic pressure on a specific circuit.

## How to use this manual

Conditions provide information to simplify or improve the safety and ease in which a repair is performed.

**Prior operation** and **Next operation** are always ICE references to another information unit which logically should precede or follow the current service procedure. Prior operation is always placed at the beginning of the current instruction; Next operation is always placed at the end of the current instruction.

| <div style="text-align: center;"> <b>WARNING</b> </div>                                                                                                                                                                                             |                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>M459 - To prevent injury, always wear eye protection when working with compressed air.</b>                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                     |
| <div>5. Inspect the block ports for damage. Replace the valve block if damaged.</div> <div>6. Assemble the control valve <b>(A)</b> into the block. See <b>Control valve 2 Port, 2 Position poppet - Assemble (L.40.C.39.14.51 - F.10.A.20)</b>.</div> <div>7. Assemble the pressure relief valve <b>(B)</b> into the block. See <b>Control valve Pressure relief - Assemble (L.40.C.39.14.30 - F.10.A.20)</b>.</div> | <div>Field Processing<br/>Chemical applicators<br/>Liquid fertilizer system<br/>Coulters bar<br/>Control valve<br/>2 Port, 2 Position poppet<br/>Service<br/>Basic<br/>General<br/>Assemble<br/>(L.40.C.39.14.51 – F.10.A.20)</div> |
| <b>Next operation: Valve block - Install (A.10.A.45 - F.10.A.15)</b>                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                     |
| <div>Power distribution systems<br/>Primary hydraulic power<br/>General<br/>Valve block<br/>Service<br/>Basic<br/>General<br/>Install</div>                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                     |

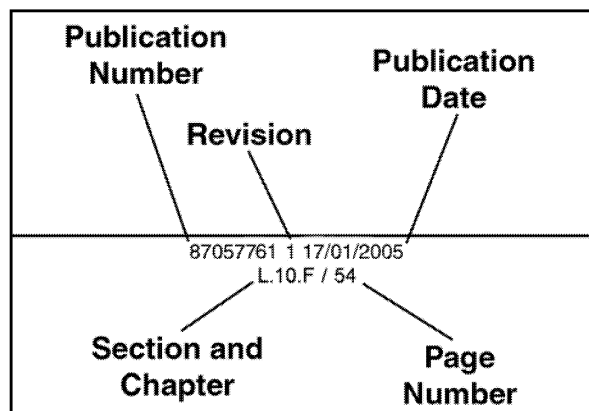
RH05A078

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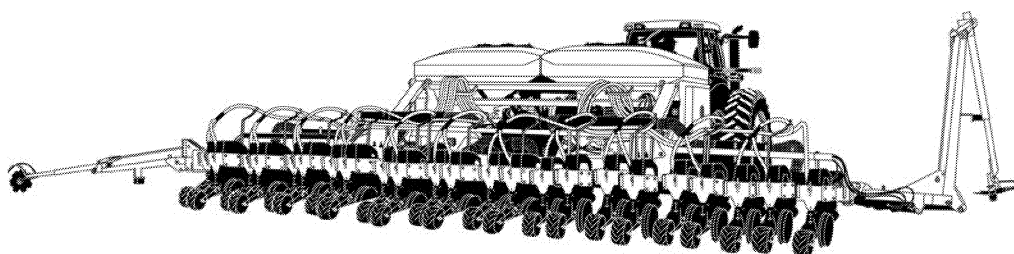


RH05A104



**NEW HOLLAND**

## **REPAIR MANUAL**



**SP380 Mounted Stacker**  
**SP280 Mounted Rigid**  
**SP480 Trailing Rigid**  
**SP580 Pivot-Transport**

## MASTER TABLE OF CONTENTS

---

DISTRIBUTION SYSTEMS  
TRAVELLING  
FRAME POSITIONING  
FIELD PROCESSING

A  
D  
F  
L

## DISTRIBUTION SYSTEMS - A

|                                                                                         |               |
|-----------------------------------------------------------------------------------------|---------------|
| <b>PRIMARY HYDRAULIC POWER SYSTEM</b>                                                   | <b>A.10.A</b> |
| SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport |               |
| <b>ELECTRICAL POWER SYSTEM</b>                                                          | <b>A.30.A</b> |
| SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport |               |
| <b>LIGHTING SYSTEM</b>                                                                  | <b>A.40.A</b> |
| SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport |               |
| <b>ELECTRONIC SYSTEM</b>                                                                | <b>A.50.A</b> |
| SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport |               |

## **DISTRIBUTION SYSTEMS - A**

### **PRIMARY HYDRAULIC POWER SYSTEM - 10.A**

#### **TECHNICAL DATA**

|                                                                                                                                                         |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| PRIMARY HYDRAULIC POWER SYSTEM - Torque (A.10.A - D.20.A.10)<br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport | 8 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|

|                                                                                                                                                         |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| PRIMARY HYDRAULIC POWER SYSTEM - Torque (A.10.A - D.20.A.10)<br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport | 8 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|---|

#### **Valve block**

|                                                                                                                                                        |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Valve block - Torque (A.10.A.45 - D.20.A.10)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive, SP580 Pivot-Transport Multivalve | 10 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|

#### **FUNCTIONAL DATA**

|                                                                                                                           |    |
|---------------------------------------------------------------------------------------------------------------------------|----|
| PRIMARY HYDRAULIC POWER SYSTEM - Dynamic description (A.10.A - C.30.A.10)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 11 |
|---------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                       |    |
|-----------------------------------------------------------------------------------------------------------------------|----|
| PRIMARY HYDRAULIC POWER SYSTEM - Dynamic description (A.10.A - C.30.A.10)<br>SP580 Pivot-Transport Split Row Planters | 14 |
|-----------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                  |    |
|------------------------------------------------------------------------------------------------------------------|----|
| PRIMARY HYDRAULIC POWER SYSTEM - Dynamic description (A.10.A - C.30.A.10)<br>SP480 Trailing Rigid Variable Drive | 17 |
|------------------------------------------------------------------------------------------------------------------|----|

#### **Hydraulic pump**

|                                                                                            |    |
|--------------------------------------------------------------------------------------------|----|
| Hydraulic pump - Component identification (A.10.A.20 - C.40.C.20)<br>SP580 Pivot-Transport | 18 |
|--------------------------------------------------------------------------------------------|----|

#### **Hydraulic line**

|                                                                                                                                                            |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schema index (A.10.A.36 - C.20.G.20)<br>SP280 Mounted Rigid, SP380 Mounted Stacker, SP480 Trailing Rigid, SP580 Pivot-Transport | 19 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                                 |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Lift and Pivot Valve,<br>SP580 Pivot-Transport 2003 and After | 21 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                                |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Lift and Pivot Valve,<br>SP580 Pivot-Transport Prior to 2003 | 23 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                    |    |
|------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schema (A.10.A.36 - C.20.B.20)<br>SP580 Pivot-Transport | 25 |
|------------------------------------------------------------------------------------|----|

|                                                                                                                                                        |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport 2003 and After | 27 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport Prior to 2003 | 28 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                                                                     |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport 2003 and After, SP580 Pivot-Transport 12 and 16 Row Planters | 29 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                                                                    |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport Prior to 2003, SP580 Pivot-Transport 12 and 16 Row Planters | 31 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

|                                                                                                                                                                                                          |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 03 (A.10.A.36 - C.20.H.03)<br>SP580 Pivot-Transport 22 GPM PTO Pump System, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport 12 and 16 Row Planters | 33 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                                                                                                          |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Hydraulic line - Hydraulic schematic frame 04 (A.10.A.36 - C.20.H.04)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport 2003 and After, SP580 Pivot-Transport 12 and 16 Row Planters | 35 |
| Hydraulic line - Hydraulic schematic frame 05 (A.10.A.36 - C.20.H.05)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport Prior to 2003, SP580 Pivot-Transport 12 and 16 Row Planters  | 37 |
| Hydraulic line - Hydraulic schematic frame 06 (A.10.A.36 - C.20.H.06)<br>SP580 Pivot-Transport 14 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport 12 and 16 Row Planters                                            | 39 |
| Hydraulic line - Hydraulic schematic frame 07 (A.10.A.36 - C.20.H.07)<br>SP580 Pivot-Transport 36 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport Multivalve, SP580 Pivot-Transport 12 and 16 Row Planters          | 41 |
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport RH Multivalve, SP580<br>Pivot-Transport Split Row Planters                                             | 43 |
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters      | 45 |
| Hydraulic line - Hydraulic schematic frame 03 (A.10.A.36 - C.20.H.03)<br>SP580 Pivot-Transport 22 GPM PTO Pump System, SP580 Pivot-Transport LH Multivalve, SP580<br>Pivot-Transport Split Row Planters                                                  | 47 |
| Hydraulic line - Hydraulic schematic frame 04 (A.10.A.36 - C.20.H.04)<br>SP580 Pivot-Transport 36 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters           | 49 |
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Liquid Fertilizer Valve                                                                                | 51 |
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Liquid Fertilizer Valve, SP580 Pivot-Transport PTO Pump System Equipped                                                                                   | 53 |
| Hydraulic line - Hydraulic schema (A.10.A.36 - C.20.A.20)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive                                                                                                                        | 55 |
| Hydraulic line - Hydraulic schema (A.10.A.36 - C.20.A.20)<br>SP380 Mounted Stacker Fold and Marker Valve                                                                                                                                                 | 56 |
| Hydraulic line - Hydraulic schema (A.10.A.36 - C.20.A.20)<br>SP280 Mounted Rigid Marker Valve                                                                                                                                                            | 57 |
| Hydraulic line - Hydraulic schema (A.10.A.36 - C.20.A.20)<br>SP480 Trailing Rigid Lift and Marker Valve                                                                                                                                                  | 58 |
| Hydraulic line - Hydraulic schematic frame 01 (A.10.A.36 - C.20.H.01)<br>SP280 Mounted Rigid Vacuum Fan Valve, SP380 Mounted Stacker Vacuum Fan Valve, SP480 Trailing<br>Rigid Vacuum Fan Valve, SP480 Trailing Rigid Mechanical Drive                   | 59 |
| Hydraulic line - Hydraulic schematic frame 02 (A.10.A.36 - C.20.H.02)<br>SP580 Pivot-Transport Vacuum Fan Valve, SP580 Pivot-Transport PTO Pump System Equipped                                                                                          | 60 |
| <b>Valve block</b>                                                                                                                                                                                                                                       |    |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Lift and Pivot Valve                                                                                                                                               | 61 |
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Lift and Pivot Valve,<br>SP580 Pivot-Transport 2003 and After                                               | 62 |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Lift and Pivot Valve,<br>SP580 Pivot-Transport Prior to 2003                                                | 69 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Marker Valve                                                                                                                                                       | 71 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP580 Pivot-Transport Marker Valve                                                                                                                                                            | 72 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Coulter Bar Valve                                                                                                                                                  | 76 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                                                                                                     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport 2003 and After                                                                                                   | 77  |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport Prior to 2003                                                                                                    | 79  |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Multivalve, SP580 Pivot-Transport 12 and 16 Row Planters                                                                                                      | 80  |
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport 2003 and After, SP580 Pivot-Transport 12 and 16 Row Planters      | 81  |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport Prior to 2003, SP580 Pivot-Transport 12 and 16 Row Planters       | 83  |
| Valve block - Component diagram frame 03 (A.10.A.45 - C.20.I.03)<br>SP580 Pivot-Transport 22 GPM PTO Pump System, SP580 Pivot-Transport Multivalve, SP580<br>Pivot-Transport 12 and 16 Row Planters                                                 | 85  |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP580 Pivot-Transport Multivalve, SP580 Pivot-Transport 12 and 16 Row Planters                                                                                                           | 87  |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport 12 and 16 Row Planters                                                                                                 | 92  |
| Valve block - Component diagram frame 04 (A.10.A.45 - C.20.I.04)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport 2003 and After, SP580 Pivot-Transport 12 and 16 Row Planters | 93  |
| Valve block - Component diagram frame 05 (A.10.A.45 - C.20.I.05)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport Prior to 2003, SP580 Pivot-Transport 12 and 16 Row Planters  | 95  |
| Valve block - Component diagram frame 06 (A.10.A.45 - C.20.I.06)<br>SP580 Pivot-Transport 14 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport 12 and 16 Row Planters                                            | 96  |
| Valve block - Component diagram frame 07 (A.10.A.45 - C.20.I.07)<br>SP580 Pivot-Transport 36 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport Multivalve, SP580 Pivot-Transport 12 and 16 Row Planters          | 98  |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP580 Pivot-Transport Bulk Fill Valve                                                                                                                                                    | 102 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport RH Multivalve, SP580 Pivot-Transport Split Row Planters                                                                                                       | 105 |
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport RH Multivalve, SP580<br>Pivot-Transport Split Row Planters                                             | 106 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP580 Pivot-Transport RH Multivalve, SP580 Pivot-Transport Split Row Planters                                                                                                            | 108 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters                                                                                                       | 111 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport Split Row Planters                                                                                                     | 112 |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters      | 113 |
| Valve block - Component diagram frame 03 (A.10.A.45 - C.20.I.03)<br>SP580 Pivot-Transport 22 GPM PTO Pump System, SP580 Pivot-Transport LH Multivalve, SP580<br>Pivot-Transport Split Row Planters                                                  | 117 |
| Valve block - Component diagram frame 04 (A.10.A.45 - C.20.I.04)<br>SP580 Pivot-Transport 36 GPM PTO Pump System, SP580 Pivot-Transport Bulk Fill Valve, SP580<br>Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters           | 121 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP580 Pivot-Transport LH Multivalve, SP580 Pivot-Transport Split Row Planters                                                                                                            | 125 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                                                                                                                                                                                                                                               |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP580 Pivot-Transport Liquid Fertilizer Valve                                                                                                                                                                                                                                                                                 | 130 |
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP580 Pivot-Transport Tractor Remote Valve Driven, SP580 Pivot-Transport Liquid Fertilizer Valve                                                                                                                                                                                                                          | 131 |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP580 Pivot-Transport Liquid Fertilizer Valve, SP580 Pivot-Transport PTO Pump System Equipped                                                                                                                                                                                                                             | 133 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive                                                                                                                                                                                                                                                          | 134 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive                                                                                                                                                                                                                                                               | 135 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP380 Mounted Stacker Fold and Marker Valve                                                                                                                                                                                                                                                                                   | 137 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP380 Mounted Stacker Fold and Marker Valve                                                                                                                                                                                                                                                                                        | 138 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP280 Mounted Rigid Marker Valve                                                                                                                                                                                                                                                                                              | 141 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP280 Mounted Rigid Marker Valve                                                                                                                                                                                                                                                                                                   | 142 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP480 Trailing Rigid Lift and Marker Valve, SP480 Trailing Rigid Variable Drive                                                                                                                                                                                                                                               | 143 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP480 Trailing Rigid Lift and Marker Valve, SP480 Trailing Rigid Mechanical Drive                                                                                                                                                                                                                                             | 144 |
| Valve block - Component diagram (A.10.A.45 - C.20.A.71)<br>SP480 Trailing Rigid Lift and Marker Valve                                                                                                                                                                                                                                                                                         | 145 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP380 Mounted Stacker Vacuum Fan Valve                                                                                                                                                                                                                                                                                        | 146 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP280 Mounted Rigid Vacuum Fan Valve                                                                                                                                                                                                                                                                                          | 147 |
| Valve block - Component localisation (A.10.A.45 - C.40.B.20)<br>SP480 Trailing Rigid Vacuum Fan Valve, SP480 Trailing Rigid Mechanical Drive                                                                                                                                                                                                                                                  | 148 |
| Valve block - Component diagram frame 01 (A.10.A.45 - C.20.I.01)<br>SP280 Mounted Rigid Tractor Remote Valve Driven, SP280 Mounted Rigid Vacuum Fan Valve,<br>SP380 Mounted Stacker Tractor Remote Valve Driven, SP380 Mounted Stacker Vacuum Fan Valve,<br>SP480 Trailing Rigid Tractor Remote Valve Driven, SP480 Trailing Rigid Vacuum Fan Valve, SP480<br>Trailing Rigid Mechanical Drive | 149 |
| Valve block - Component diagram frame 02 (A.10.A.45 - C.20.I.02)<br>SP480 Trailing Rigid Vacuum Fan Valve, SP480 Trailing Rigid PTO Pump System Equipped, SP480<br>Trailing Rigid Mechanical Drive                                                                                                                                                                                            | 150 |

## SERVICE

### Valve block

|                                                                                                     |     |
|-----------------------------------------------------------------------------------------------------|-----|
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Lift and Pivot Valve          | 151 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Lift and Pivot Valve | 153 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Lift and Pivot Valve         | 157 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Marker Valve                  | 159 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Marker Valve         | 161 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Marker Valve                 | 164 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                        |     |
|----------------------------------------------------------------------------------------------------------------------------------------|-----|
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Coulter Bar Valve                                                | 167 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport Prior to 2003  | 169 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Coulter Bar Valve, SP580 Pivot-Transport 2003 and After | 171 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Coulter Bar Valve                                               | 173 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport 12 Row and 12/23 Split Row, SP580 Pivot-Transport RH Multivalve  | 174 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport 16 Row and 16/31 Split Row, SP580 Pivot-Transport RH Multivalve  | 176 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport 12 Row and 12/23 Split Row, SP580 Pivot-Transport LH Multivalve  | 178 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport 16 Row and 16/31 Split Row, SP580 Pivot-Transport LH Multivalve  | 180 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport RH Multivalve, SP580 Pivot-Transport LH Multivalve      | 182 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport 12 Row and 12/23 Split Row, SP580 Pivot-Transport RH Multivalve | 186 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport 16 Row and 16/31 Split Row, SP580 Pivot-Transport RH Multivalve | 188 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport 12 Row and 12/23 Split Row, SP580 Pivot-Transport LH Multivalve | 190 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport 16 Row and 16/31 Split Row, SP580 Pivot-Transport LH Multivalve | 192 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport 2003 and After            | 194 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport 2003 and After   | 196 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport 2003 and After           | 199 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport Prior to 2003             | 201 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport Prior to 2003    | 203 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Bulk Fill Valve, SP580 Pivot-Transport Prior to 2003            | 205 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP580 Pivot-Transport Liquid Fertilizer Valve                                          | 207 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP580 Pivot-Transport Liquid Fertilizer Valve                                 | 209 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP580 Pivot-Transport Liquid Fertilizer Valve                                         | 211 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive                   | 213 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive          | 214 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP480 Trailing Rigid Multivalve, SP480 Trailing Rigid Variable Drive                  | 216 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP380 Mounted Stacker Fold and Marker Valve                                            | 217 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP380 Mounted Stacker Fold and Marker Valve                                                                                                                | 219 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP380 Mounted Stacker Fold and Marker Valve                                                                                                                        | 221 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP280 Mounted Rigid Marker Valve                                                                                                                                    | 222 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP280 Mounted Rigid Marker Valve                                                                                                                           | 224 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP280 Mounted Rigid Marker Valve                                                                                                                                   | 226 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP480 Trailing Rigid Lift and Marker Valve                                                                                                                          | 228 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP480 Trailing Rigid Lift and Marker Valve                                                                                                                 | 230 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP480 Trailing Rigid Lift and Marker Valve                                                                                                                         | 232 |
| Valve block - Remove (A.10.A.45 - F.10.A.10)<br>SP280 Mounted Rigid Vacuum Fan Valve, SP380 Mounted Stacker Vacuum Fan Valve, SP480 Trailing Rigid Vacuum Fan Valve, SP480 Trailing Rigid Mechanical Drive          | 234 |
| Valve block - Decontaminating (A.10.A.45 - F.30.A.60)<br>SP280 Mounted Rigid Vacuum Fan Valve, SP380 Mounted Stacker Vacuum Fan Valve, SP480 Trailing Rigid Vacuum Fan Valve, SP480 Trailing Rigid Mechanical Drive | 235 |
| Valve block - Install (A.10.A.45 - F.10.A.15)<br>SP280 Mounted Rigid Vacuum Fan Valve, SP380 Mounted Stacker Vacuum Fan Valve, SP480 Trailing Rigid Vacuum Fan Valve, SP480 Trailing Rigid Mechanical Drive         | 237 |

## **DISTRIBUTION SYSTEMS - A**

### **ELECTRICAL POWER SYSTEM - 30.A**

#### **FUNCTIONAL DATA**

|                                                                                                                                                                                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP580 Pivot-Transport                                                                                                                                    | 14 |
| ELECTRICAL POWER SYSTEM - Fault code index (A.30.A - C.40.G.10)<br>SP580 Pivot-Transport                                                                                                                                            | 25 |
| ELECTRICAL POWER SYSTEM - Identification (A.30.A - C.40.C.01)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway, SP480 Trailing Rigid Ground Drive: Non-Gateway                  | 31 |
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                                                                           | 32 |
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway                                                        | 35 |
| ELECTRICAL POWER SYSTEM - Fault code index (A.30.A - C.40.G.10)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway, SP480 Trailing Rigid Ground Drive: Non-Gateway                | 38 |
| ELECTRICAL POWER SYSTEM - Identification (A.30.A - C.40.C.01)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped, SP480 Trailing Rigid Ground Drive: Gateway Equipped   | 41 |
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                                                                      | 42 |
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped                                              | 46 |
| ELECTRICAL POWER SYSTEM - Fault code index (A.30.A - C.40.G.10)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped, SP480 Trailing Rigid Ground Drive: Gateway Equipped | 50 |
| ELECTRICAL POWER SYSTEM - Identification (A.30.A - C.40.C.01)<br>SP480 Trailing Rigid Variable Drive                                                                                                                                | 53 |
| ELECTRICAL POWER SYSTEM - Component identification (A.30.A - C.40.C.20)<br>SP480 Trailing Rigid Variable Drive                                                                                                                      | 54 |
| ELECTRICAL POWER SYSTEM - Fault code index (A.30.A - C.40.G.10)<br>SP480 Trailing Rigid Variable Drive                                                                                                                              | 58 |

#### **Fuse and relay box**

|                                                                                                           |    |
|-----------------------------------------------------------------------------------------------------------|----|
| Fuse and relay box Fuse - Component diagram frame 08 (A.30.A.80.81 - C.20.F.08)<br>SP580 Pivot-Transport  | 62 |
| Fuse and relay box Relay - Component diagram frame 09 (A.30.A.80.80 - C.20.F.09)<br>SP580 Pivot-Transport | 67 |
| Fuse and relay box Relay - Component diagram frame 11 (A.30.A.80.80 - C.20.F.11)<br>SP580 Pivot-Transport | 68 |
| Fuse and relay box Relay - Component diagram frame 12 (A.30.A.80.80 - C.20.F.12)<br>SP580 Pivot-Transport | 70 |

#### **Connector**

## MASTER TABLE OF CONTENTS

---

|                                                                                                                |     |
|----------------------------------------------------------------------------------------------------------------|-----|
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP580 Pivot-Transport                        | 73  |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP580 Pivot-Transport Prior to 2005          | 76  |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP580 Pivot-Transport 2005 and After         | 85  |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP580 Pivot-Transport                        | 94  |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP580 Pivot-Transport                        | 100 |
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP580 Pivot-Transport                        | 104 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP580 Pivot-Transport                        | 105 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP580 Pivot-Transport                        | 109 |
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP580 Pivot-Transport                        | 111 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP580 Pivot-Transport                        | 114 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP580 Pivot-Transport Prior to 2005          | 118 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP580 Pivot-Transport 2005 and After         | 121 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP580 Pivot-Transport Prior to 2005          | 124 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP580 Pivot-Transport 2005 and After         | 127 |
| Connector - Component diagram frame 16 (A.30.A.87 - C.20.F.16)<br>SP580 Pivot-Transport                        | 130 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP580 Pivot-Transport Split Row Planters     | 134 |
| Connector - Component diagram frame 18 (A.30.A.87 - C.20.F.18)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 136 |
| Connector - Component diagram frame 19 (A.30.A.87 - C.20.F.19)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 138 |
| Connector - Component diagram frame 20 (A.30.A.87 - C.20.F.20)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 141 |
| Connector - Component diagram frame 21 (A.30.A.87 - C.20.F.21)<br>SP580 Pivot-Transport                        | 143 |
| Connector - Component diagram frame 22 (A.30.A.87 - C.20.F.22)<br>SP580 Pivot-Transport                        | 145 |
| Connector - Component diagram frame 23 (A.30.A.87 - C.20.F.23)<br>SP580 Pivot-Transport                        | 149 |
| Connector - Component diagram frame 24 (A.30.A.87 - C.20.F.24)<br>SP580 Pivot-Transport                        | 153 |
| Connector - Component diagram frame 25 (A.30.A.87 - C.20.F.25)<br>SP580 Pivot-Transport                        | 156 |
| Connector - Component diagram frame 26 (A.30.A.87 - C.20.F.26)<br>SP580 Pivot-Transport                        | 158 |
| Connector - Component diagram frame 27 (A.30.A.87 - C.20.F.27)<br>SP580 Pivot-Transport Prior to 2005          | 161 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Connector - Component diagram frame 27 (A.30.A.87 - C.20.F.27)<br>SP580 Pivot-Transport 2005 and After                                                              | 164 |
| Connector - Component diagram frame 28 (A.30.A.87 - C.20.F.28)<br>SP580 Pivot-Transport Prior to 2005                                                               | 166 |
| Connector - Component diagram frame 28 (A.30.A.87 - C.20.F.28)<br>SP580 Pivot-Transport 2005 and After                                                              | 168 |
| Connector - Component diagram frame 29 (A.30.A.87 - C.20.F.29)<br>SP580 Pivot-Transport                                                                             | 170 |
| Connector - Component diagram frame 30 (A.30.A.87 - C.20.F.30)<br>SP580 Pivot-Transport                                                                             | 176 |
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 182 |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 183 |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 184 |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 185 |
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 188 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 189 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 193 |
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 196 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 197 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 198 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 200 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway                                                    | 204 |
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 208 |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 209 |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 210 |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 211 |
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 215 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 217 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway | 222 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                               |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 225 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 226 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 227 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 231 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 236 |
| Connector - Component diagram frame 18 (A.30.A.87 - C.20.F.18)<br>SP280 Mounted Rigid Ground Drive: Non-Gateway, SP380 Mounted Stacker Ground Drive:<br>Non-Gateway           | 241 |
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 245 |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 246 |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 248 |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 249 |
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 253 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 254 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 258 |
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 261 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 262 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 266 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 268 |
| Connector - Component diagram frame 16 (A.30.A.87 - C.20.F.16)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 272 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP480 Trailing Rigid Ground Drive: Gateway Equipped                                                         | 274 |
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 278 |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 279 |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 281 |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 282 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                                                                               |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 286 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 288 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 293 |
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 296 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 297 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 301 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 305 |
| Connector - Component diagram frame 16 (A.30.A.87 - C.20.F.16)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 310 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 312 |
| Connector - Component diagram frame 18 (A.30.A.87 - C.20.F.18)<br>SP280 Mounted Rigid Ground Drive: Gateway Equipped, SP380 Mounted Stacker Ground Drive:<br>Gateway Equipped | 317 |
| Connector - Component diagram frame 05 (A.30.A.87 - C.20.F.05)<br>SP480 Trailing Rigid Variable Drive                                                                         | 321 |
| Connector - Component diagram frame 06 (A.30.A.87 - C.20.F.06)<br>SP480 Trailing Rigid Variable Drive                                                                         | 322 |
| Connector - Component diagram frame 07 (A.30.A.87 - C.20.F.07)<br>SP480 Trailing Rigid Variable Drive                                                                         | 323 |
| Connector - Component diagram frame 08 (A.30.A.87 - C.20.F.08)<br>SP480 Trailing Rigid Variable Drive                                                                         | 324 |
| Connector - Component diagram frame 09 (A.30.A.87 - C.20.F.09)<br>SP480 Trailing Rigid Variable Drive                                                                         | 327 |
| Connector - Component diagram frame 10 (A.30.A.87 - C.20.F.10)<br>SP480 Trailing Rigid Variable Drive                                                                         | 329 |
| Connector - Component diagram frame 11 (A.30.A.87 - C.20.F.11)<br>SP480 Trailing Rigid Variable Drive                                                                         | 331 |
| Connector - Component diagram frame 12 (A.30.A.87 - C.20.F.12)<br>SP480 Trailing Rigid Variable Drive                                                                         | 334 |
| Connector - Component diagram frame 13 (A.30.A.87 - C.20.F.13)<br>SP480 Trailing Rigid Variable Drive                                                                         | 335 |
| Connector - Component diagram frame 14 (A.30.A.87 - C.20.F.14)<br>SP480 Trailing Rigid Variable Drive                                                                         | 337 |
| Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)<br>SP480 Trailing Rigid Variable Drive                                                                         | 339 |
| Connector - Component diagram frame 16 (A.30.A.87 - C.20.F.16)<br>SP480 Trailing Rigid Variable Drive                                                                         | 343 |
| Connector - Component diagram frame 17 (A.30.A.87 - C.20.F.17)<br>SP480 Trailing Rigid Variable Drive                                                                         | 346 |

## MASTER TABLE OF CONTENTS

---

|                                                                                                                        |     |
|------------------------------------------------------------------------------------------------------------------------|-----|
| Connector - Component diagram frame 18 (A.30.A.87 - C.20.F.18)<br>SP480 Trailing Rigid Variable Drive                  | 350 |
| Connector - Component diagram frame 19 (A.30.A.87 - C.20.F.19)<br>SP480 Trailing Rigid Variable Drive                  | 352 |
| Connector - Component diagram frame 20 (A.30.A.87 - C.20.F.20)<br>SP480 Trailing Rigid Variable Drive                  | 353 |
| <b>Wiring harness</b>                                                                                                  |     |
| Wiring harness - Electrical schematic frame 01 (A.30.A.88 - C.20.E.01)<br>SP580 Pivot-Transport                        | 354 |
| Wiring harness - Electrical schematic frame 02 (A.30.A.88 - C.20.E.02)<br>SP580 Pivot-Transport                        | 355 |
| Wiring harness - Electrical schematic frame 03 (A.30.A.88 - C.20.E.03)<br>SP580 Pivot-Transport                        | 356 |
| Wiring harness - Electrical schematic frame 04 (A.30.A.88 - C.20.E.04)<br>SP580 Pivot-Transport Prior to 2005          | 357 |
| Wiring harness - Electrical schematic frame 04 (A.30.A.88 - C.20.E.04)<br>SP580 Pivot-Transport 2005 and After         | 358 |
| Wiring harness - Electrical schematic frame 05 (A.30.A.88 - C.20.E.05)<br>SP580 Pivot-Transport                        | 359 |
| Wiring harness - Electrical schematic frame 06 (A.30.A.88 - C.20.E.06)<br>SP580 Pivot-Transport Prior to 2005          | 360 |
| Wiring harness - Electrical schematic frame 06 (A.30.A.88 - C.20.E.06)<br>SP580 Pivot-Transport 2005 and After         | 361 |
| Wiring harness - Electrical schematic frame 07 (A.30.A.88 - C.20.E.07)<br>SP580 Pivot-Transport                        | 362 |
| Wiring harness - Electrical schematic frame 08 (A.30.A.88 - C.20.E.08)<br>SP580 Pivot-Transport                        | 363 |
| Wiring harness - Electrical schematic frame 09 (A.30.A.88 - C.20.E.09)<br>SP580 Pivot-Transport                        | 364 |
| Wiring harness - Electrical schematic frame 10 (A.30.A.88 - C.20.E.10)<br>SP580 Pivot-Transport                        | 365 |
| Wiring harness - Electrical schematic frame 11 (A.30.A.88 - C.20.E.11)<br>SP580 Pivot-Transport                        | 366 |
| Wiring harness - Electrical schematic frame 12 (A.30.A.88 - C.20.E.12)<br>SP580 Pivot-Transport                        | 367 |
| Wiring harness - Electrical schematic frame 13 (A.30.A.88 - C.20.E.13)<br>SP580 Pivot-Transport                        | 368 |
| Wiring harness - Electrical schematic frame 14 (A.30.A.88 - C.20.E.14)<br>SP580 Pivot-Transport Prior to 2005          | 369 |
| Wiring harness - Electrical schematic frame 14 (A.30.A.88 - C.20.E.14)<br>SP580 Pivot-Transport 2005 and After         | 370 |
| Wiring harness - Electrical schematic frame 15 (A.30.A.88 - C.20.E.15)<br>SP580 Pivot-Transport Prior to 2005          | 371 |
| Wiring harness - Electrical schematic frame 15 (A.30.A.88 - C.20.E.15)<br>SP580 Pivot-Transport 2005 and After         | 372 |
| Wiring harness - Electrical schematic frame 16 (A.30.A.88 - C.20.E.16)<br>SP580 Pivot-Transport                        | 373 |
| Wiring harness - Electrical schematic frame 17 (A.30.A.88 - C.20.E.17)<br>SP580 Pivot-Transport Split Row Planters     | 374 |
| Wiring harness - Electrical schematic frame 18 (A.30.A.88 - C.20.E.18)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 375 |
| Wiring harness - Electrical schematic frame 19 (A.30.A.88 - C.20.E.19)<br>SP580 Pivot-Transport 12 and 16 Row Planters | 376 |

## MASTER TABLE OF CONTENTS

|                                                                                                                          |     |
|--------------------------------------------------------------------------------------------------------------------------|-----|
| Wiring harness - Electrical schematic frame 20 (A.30.A.88 - C.20.E.20)<br>SP580 Pivot-Transport 12 and 16 Row Planters   | 377 |
| Wiring harness - Electrical schematic frame 21 (A.30.A.88 - C.20.E.21)<br>SP580 Pivot-Transport Split Row Planters       | 378 |
| Wiring harness - Electrical schematic frame 22 (A.30.A.88 - C.20.E.22)<br>SP580 Pivot-Transport Split Row Planters       | 379 |
| Wiring harness - Electrical schematic frame 23 (A.30.A.88 - C.20.E.23)<br>SP580 Pivot-Transport 12 and 16 Row Planters   | 380 |
| Wiring harness - Electrical schematic frame 23 (A.30.A.88 - C.20.E.23)<br>SP580 Pivot-Transport Split Row Planters       | 382 |
| Wiring harness - Electrical schematic frame 24 (A.30.A.88 - C.20.E.24)<br>SP580 Pivot-Transport                          | 383 |
| Wiring harness - Electrical schematic frame 25 (A.30.A.88 - C.20.E.25)<br>SP580 Pivot-Transport                          | 384 |
| Wiring harness - Electrical schematic frame 26 (A.30.A.88 - C.20.E.26)<br>SP580 Pivot-Transport                          | 385 |
| Wiring harness - Electrical schematic frame 27 (A.30.A.88 - C.20.E.27)<br>SP580 Pivot-Transport Prior to 2005            | 386 |
| Wiring harness - Electrical schematic frame 27 (A.30.A.88 - C.20.E.27)<br>SP580 Pivot-Transport 2005 and After           | 387 |
| Wiring harness - Electrical schematic frame 28 (A.30.A.88 - C.20.E.28)<br>SP580 Pivot-Transport Prior to 2005            | 388 |
| Wiring harness - Electrical schematic frame 28 (A.30.A.88 - C.20.E.28)<br>SP580 Pivot-Transport 2005 and After           | 389 |
| Wiring harness - Electrical schematic frame 29 (A.30.A.88 - C.20.E.29)<br>SP580 Pivot-Transport                          | 390 |
| Wiring harness - Electrical schematic frame 30 (A.30.A.88 - C.20.E.30)<br>SP580 Pivot-Transport                          | 391 |
| Wiring harness - Overview (A.30.A.88 - C.10.A.10)<br>SP580 Pivot-Transport                                               | 392 |
| Wiring harness Power harness - Drawing (A.30.A.88.80 - C.10.A.60)<br>SP580 Pivot-Transport                               | 404 |
| Wiring harness Main harness - Drawing (A.30.A.88.81 - C.10.A.60)<br>SP580 Pivot-Transport Prior to 2003                  | 406 |
| Wiring harness Main harness - Drawing (A.30.A.88.81 - C.10.A.60)<br>SP580 Pivot-Transport Prior to 2005                  | 408 |
| Wiring harness Main harness - Drawing (A.30.A.88.81 - C.10.A.60)<br>SP580 Pivot-Transport 2005 and After                 | 410 |
| Wiring harness Toolbar harness - Drawing (A.30.A.88.82 - C.10.A.60)<br>SP580 Pivot-Transport 12 and 16 Row Planters      | 412 |
| Wiring harness Toolbar harness - Drawing (A.30.A.88.82 - C.10.A.60)<br>SP580 Pivot-Transport Split Row Planters          | 414 |
| Wiring harness Frame harness - Drawing (A.30.A.88.83 - C.10.A.60)<br>SP580 Pivot-Transport                               | 416 |
| Wiring harness Bulk fill harness - Drawing (A.30.A.88.84 - C.10.A.60)<br>SP580 Pivot-Transport                           | 419 |
| Wiring harness Liquid fertilizer - Drawing (A.30.A.88.85 - C.10.A.60)<br>SP580 Pivot-Transport                           | 421 |
| Wiring harness - Electrical schematic frame 01 (A.30.A.88 - C.20.E.01)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway | 423 |
| Wiring harness - Electrical schematic frame 02 (A.30.A.88 - C.20.E.02)<br>SP480 Trailing Rigid Ground Drive: Non-Gateway | 424 |