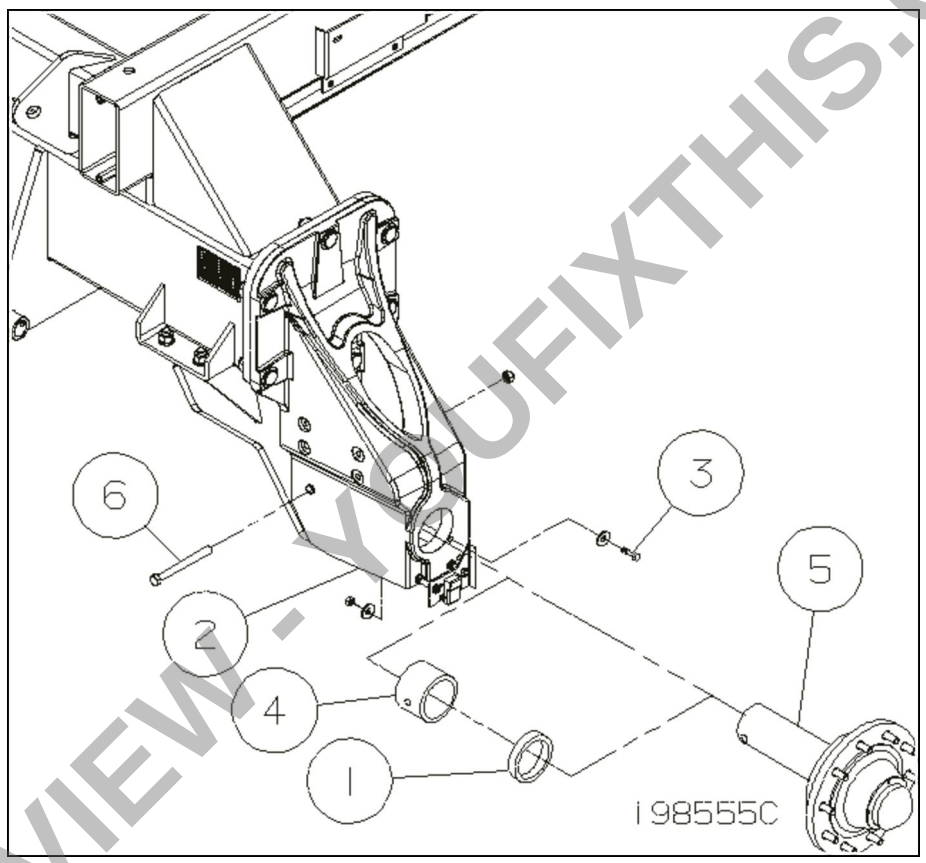
RIMS	RIMS-REAR	RIMS-REAR
LOAD RATING (at 10 mph)	**12,000 lb**	**7,500 lb**
WHEEL BOLT TORQUE	**440 Nm** (**325 lb ft**)	**217 Nm** (**160 lb ft**)
WEIGHT (with sprocket)	**54 kg** (**125 lb**)	**19 kg** (**42 lb**)

SPINDLES

	REAR	REAR
IDENTIFICATION	S1010- A09	
MAJOR BEARING SURFACE	**2.500 in**	**2.250 in**
MINOR BEARING SURFACE	**1.750 in**	**1.625 in**
SPINDLE SIZE	**3.5 in** x **17.75 in**	**3 in** x **17 in**
LOAD RATING (static)	**12,000 lb**	**7,500 lb**

Keep spindle bolt **(6)** securely fastened. Check for movement or wear of spindle rings **(1)** and **(4)**.



198555C 1

Rear wheel - Torque

P Series Air Carts	

TIRE SIZE	PLY RATING	NUMBER OF BOLTS	WHEEL BOLT TORQUE
18.4 x 26 (R1) Grip, (R2) Rice, (R3) AWT 1	10	10 bolt	**420 Nm** (**325 lb ft**)
23.1 x 26 (R1) Grip, (R2) Rice, (R3) AWT	10	10 bolt	**420 Nm** (**325 lb ft**)
23.1 x 26 (R1) Grip, (R3) AWT	12	10 bolt	**420 Nm** (**325 lb ft**)
28L x 26 (R1) Grip	10	10 bolt	**420 Nm** (**325 lb ft**)
28L x 26 (R2) Rice, (R3) AWT	12	10 bolt	**420 Nm** (**325 lb ft**)
30.5L x 32 (R1) Grip, (R3) AWT	12	10 bolt	**420 Nm** (**325 lb ft**)

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

Seeding auger control valve - Hydraulic schema

P1050	Deluxe auger
P1060	Deluxe auger



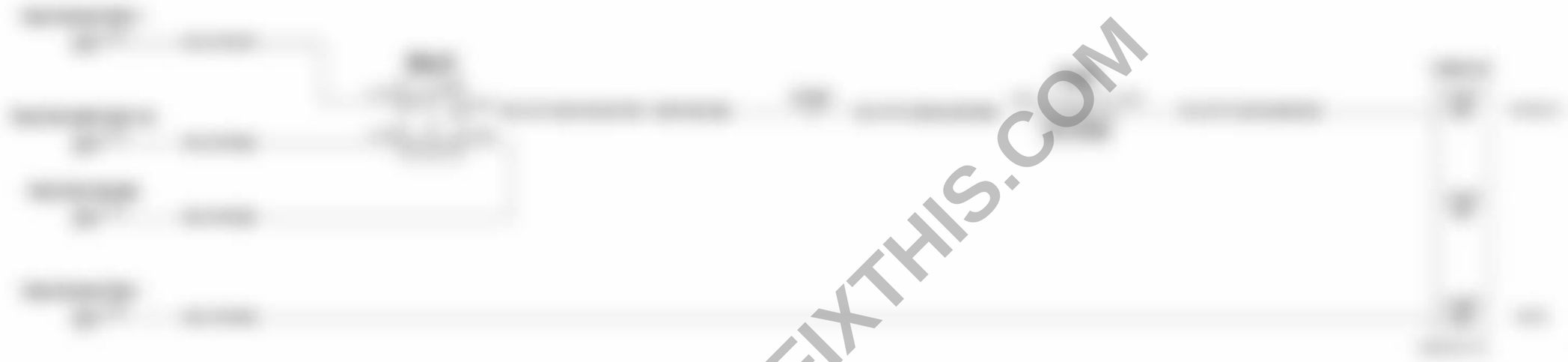
Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

POWER EXTENSION (OPTION)

POWER EXTENSION, SWITCHED (14294)



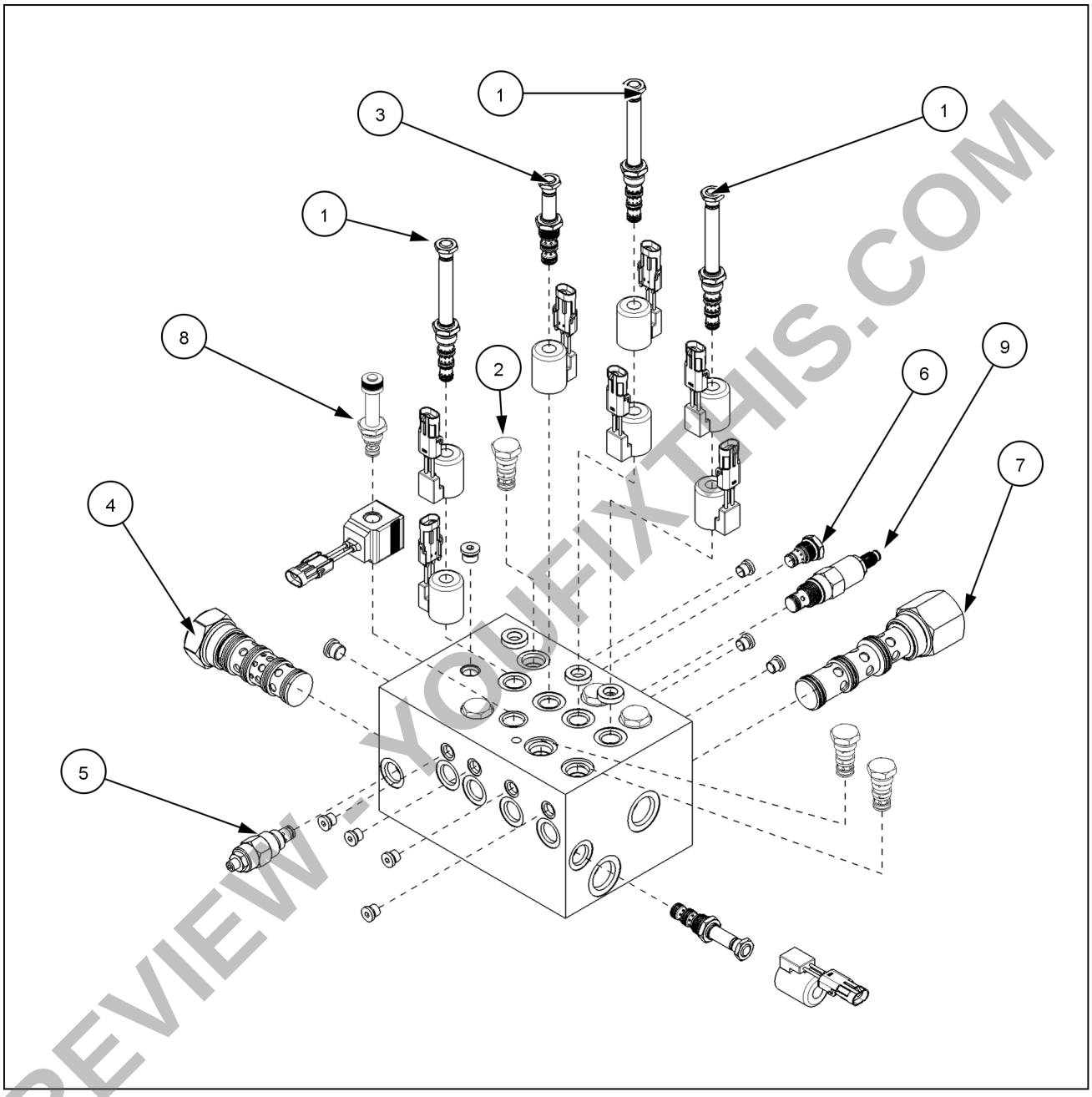
PREVIEW - YOUFIXTHIS.COM

Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Seeding auger control valve - Torque

P1050	Deluxe auger
P1060	Deluxe auger



SAPE13SE00559GB 1

Valve

Function	QTY	Specifications
(1) solenoid valve, 4 way, 3 position, screw in cartridge	3	**34 - 41 N·m** (**25 - 30 lb ft**)
(2) check valve, pilot to open, poppet type	6	**45 N·m** (**33 lb ft**)
(3) solenoid valve, 3 way, 2 position spool type	1	**34 - 41 N·m** (**25 - 30 lb ft**)
(4) Priority flow control, spool type, load sensing	1	**160 - 180 N·m** (**120 - 135 lb ft**)
(5) relief valve, poppet, direct acting	2	**68 - 75 N·m** (**50 - 55 lb ft**)
(6) flow regulator, fixed, pressure compensated	1	**34 - 41 N·m** (**25 - 30 lb ft**)
(7)pilot to shift valve, pilot operated, directional control valve	1	**129 - 155 N·m** (**95 - 115 lb ft**)
(8) Directional control valve, bi-directional, normally closed popped solenoid valve	1	**20 N·m** (**15 lb ft**)
(9) relief valve, poppet, direct acting, differential area	1	**68 - 75 N·m** (**50 - 55 lb ft**)

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Hydraulic systems - Dynamic description Explanation of Flow

Variable Drive Hydraulics

This schematic shows the hydraulic components of the 3 tank plastic air cart. Line **(A)** and **(B)** are the fan circuit. Ports **(C)** and **(D)** are the auger circuit.
A pressure compensated flow control valve is installed to maintain **4.7 l/min** (**1.25 US gpm**) supply to the meter drive torque generators regardless of system pressure, reducing the current draw of the 12V motors to less than **6.5 A** per meter drive.
The fan motor is a 19cc orbital motor with an internal check valve. The check valve allows the fan to freewheel while shutting down.
To determine oil flow requirements of the fan at different speeds, use the formula- **fan rpm x .0039 = US gpm**. The center manifold is raised and lowered hydraulically. A ball valve is installed in the supply line leading to the manifold control valve. This ball valve provides a safety to prevent damage between the two manifolds.

Fan Circuit Hydraulics

With the fan circuit engaged, Port A supplies oil to the fan motor returning back through to the case drain return line, which MUST be connected to a zero pressure return port to the tractor reservoir.
Oil in the fan circuit also supplies oil to the torque generators through a 25 micron filter and a pressure compensated flow control valve (PCFC). The PCFC ensures a steady **4.7 l/min** (**1.25 US gpm**) supply to the torque generators at pressures between **3100 - 5170 kPa** (**450 - 750 psi**) during fan operation.
The steady flow of oil returns to the tractor reservoir through the case drain return line of the fan. Oil flow is also supplied to the manifold control valve through a ball valve located at the intermediate manifold handle. The ball valve is closed when the intermediate manifold is connected to the center manifold. When the intermediate manifold is separated from the center manifold by moving the lever, the ball valve opens allowing oil to flow through the manifold control valve.

NOTE: *If the meter drive system continues to be operated with insufficient pressure, the in-line **15 A** fuse between the tank switch and the ECU may fail.*

Auger Circuit Hydraulics

When the air cart is equipped with the Auger Option, another set of hydraulic hoses provide oil to the auger circuit, Port C and Port D. With the auger circuit engaged, Port C supplies oil to the auger control valve.
The auger circuit also supplies oil to the torque generators of the VR meter drive assembly. This allows the operator to conduct a product meter calibration without having to engage the fan circuit. If all auger control valves are in the neutral position, the auger circuit pressure is in the low pressure standby mode of the tractor. This low pressure is not high enough to operate the VR meter drive. A minimum pressure of **3100 kPa** (**450 psi**) has to be achieved before the meter drive system will function.

NOTE: *If the meter drive system continues to be operated with insufficient pressure, the in-line 15 amp fuse between the tank switch and the ECU may fail.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Contents

Electrical systems - 55

FAULT CODES - DTC

DIAGNOSTIC

[Air Cart Rate ECU] - 520193-03-ECU_PWR, Voltage above normal, or shorted to high source 9
[Air Cart Rate ECU] - 520193-04-ECU_PWR, Voltage below normal, or shorted to low source 11
[Air Cart Rate ECU] - 520194-03-Sensor Pwr, Voltage above normal, or shorted to high source 13
[Air Cart Rate ECU] - 520194-04-Sensor Pwr, Voltage below normal, or shorted to low source 15
[Air Cart Rate ECU] - 520195-03-PWR, Voltage above normal, or shorted to high source 17
[Air Cart Rate ECU] - 520195-04-PWR, Voltage below normal, or shorted to low source 19
[Air Cart Rate ECU] - 520196-03-Internal 5V, Voltage above normal, or shorted to high source 21
[Air Cart Rate ECU] - 520196-04-Internal 5V, Voltage below normal, or shorted to low source 22
[Air Cart Rate ECU] - 520197-03-Internal 8V, Voltage above normal, or shorted to high source 23
[Air Cart Rate ECU] - 520197-04-Internal 8V, Voltage below normal, or shorted to low source 24
[Air Cart Rate ECU] - 520198-03-Internal 2.5V Ref, Voltage above normal, or shorted to high source . 25
[Air Cart Rate ECU] - 520198-04-Internal 2.5V Ref, Voltage below normal, or shorted to low source . . 26
[Air Cart Rate ECU] - 520199-03-Internal 5V, Voltage above normal, or shorted to high source 27
[Air Cart Rate ECU] - 520199-04-Internal 5V, Voltage below normal, or shorted to low source 28
[Air Cart Rate ECU] - 520200-03-+5V, Voltage above normal, or shorted to high source 29
[Air Cart Rate ECU] - 520200-04-+5V, Voltage below normal, or shorted to low source 30
[Air Cart Rate ECU] - 520201-03-Ground Difference, Voltage above normal, or shorted to high source 31
[Air Cart Rate ECU] - 520201-04-Ground Difference, Voltage below normal, or shorted to low source 33
[Air Cart Rate ECU] - 520202-03-Implement CAN_H, Voltage above normal or shorted to high source 35
[Air Cart Rate ECU] - 520202-04-Implement CAN_H, Voltage below normal, or shorted to low source 38
[Air Cart Rate ECU] - 520203-03-Implement CAN_L, Voltage above normal, or shorted to high source 41
[Air Cart Rate ECU] - 520203-04-Implement CAN_L, Voltage below normal, or shorted to low source 44
[Air Cart Rate ECU] - 520208-00-Wheel Ground Spd 1, data valid but above normal operating range - most severe level 47
[Air Cart Rate ECU] - 520208-02-Wheel Ground Spd 1, Data erratic, intermittent, or incorrect 49
[Air Cart Rate ECU] - 520208-03-Wheel Ground Spd 1, Voltage above normal, or shorted to high source (*) 51
[Air Cart Rate ECU] - 520208-04-Wheel Ground Spd 1, Voltage below normal, or shorted to low source (*) 53
[Air Cart Rate ECU] - 520208-08-Wheel Ground Spd 1, Abnormal frequency, pulse width, or period (*) 55

(*) See content for specific models

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Metering system - 61

Split meter control system - 800

P1030
P1040
P1050
P1060

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 7 of 1162 pages

The full manual includes:

- All 1162 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland P1030, P1040, P1050, P1060 Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual