Torque

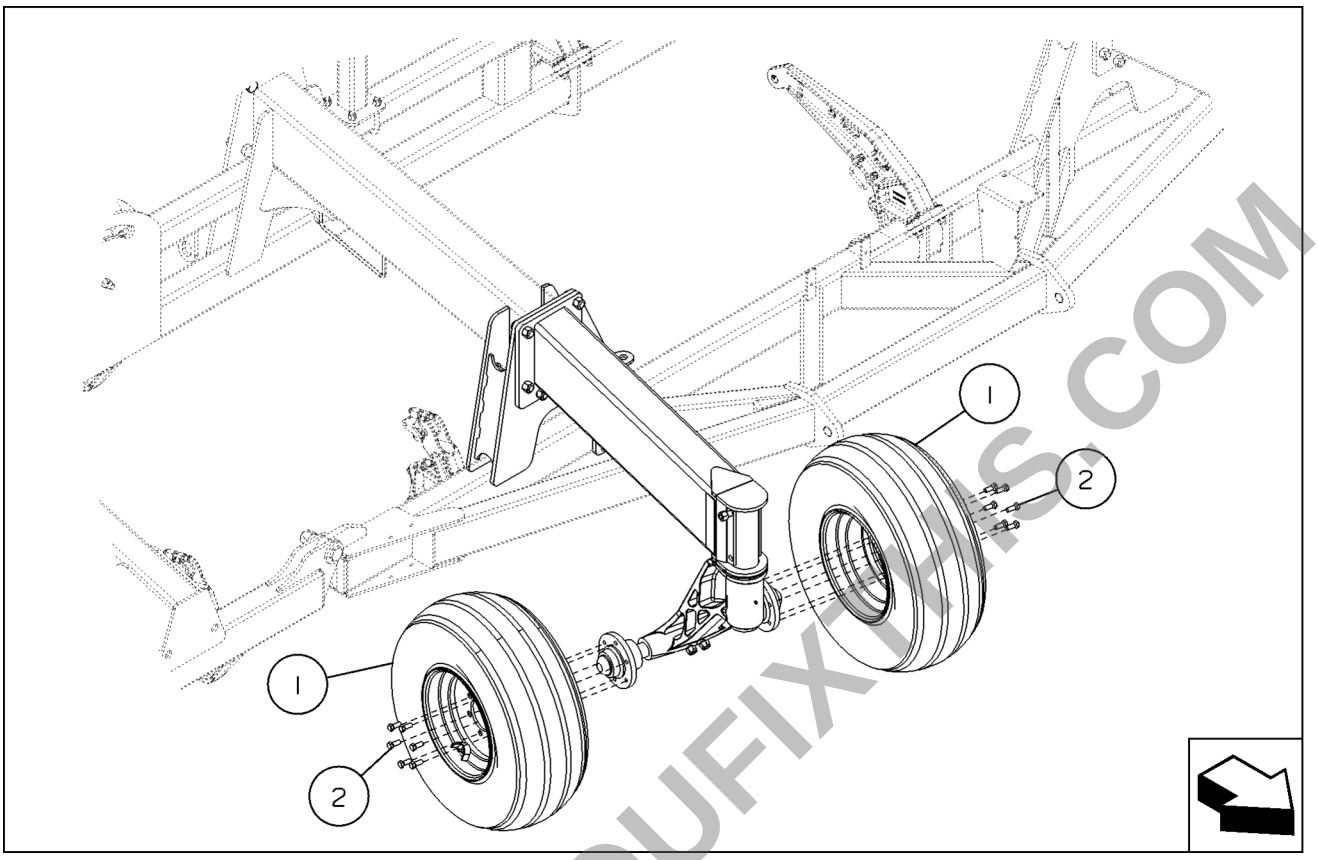
BOLT TORQUE INFORMATION

PREVIEW - YOUFIXTHIS.COM

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

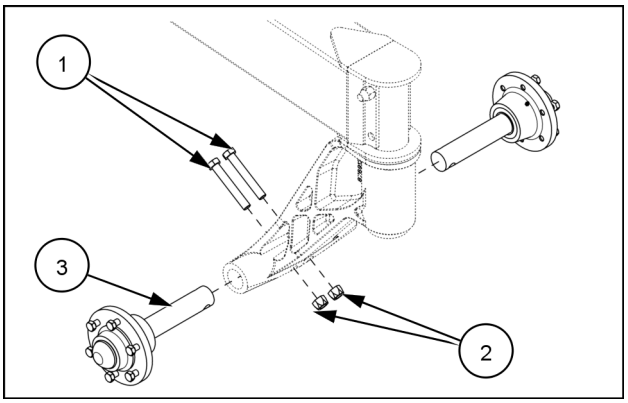
Download full manual at youfixthis.com

Axle wheel hub - Disassemble front dual walking frame wheels



SAPE12SE00422FB 1

1. Block the frame
2. Remove the wheel bolts **(2)** and wheel **(1)** from the hub that requires service.
3. Remove the bolts **(1)** and locknuts to remove the hub and spindle **(2)** from the axle.
4. Remove the hubs **(3)**.



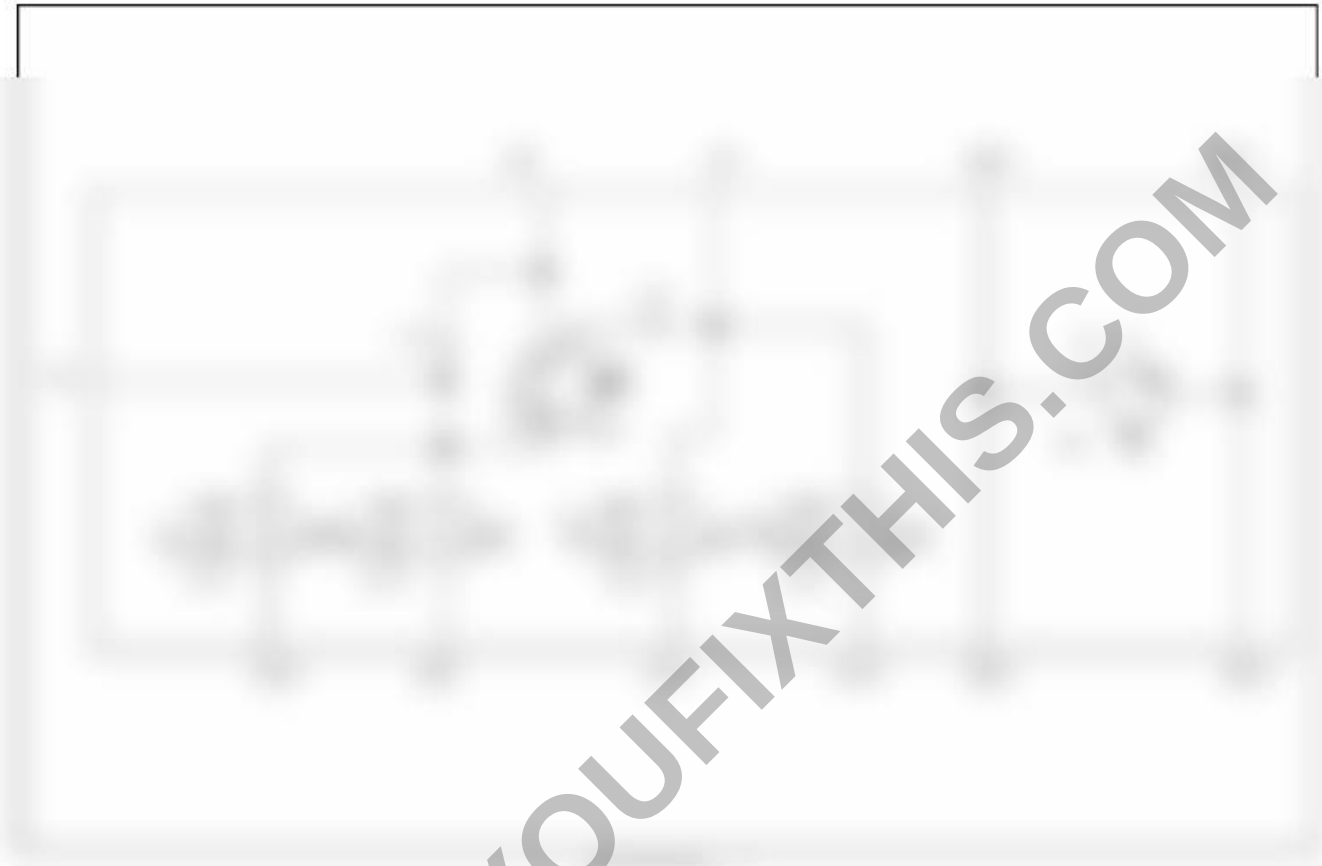
SAPE13SE00420AA 2

Next operation:
Axle wheel hub - Service instruction Caster Hub and Spindle Maintenance (25.400)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Seeding hydraulic circuit - Hydraulic schematic frame 01 – subbar and pressure valve block

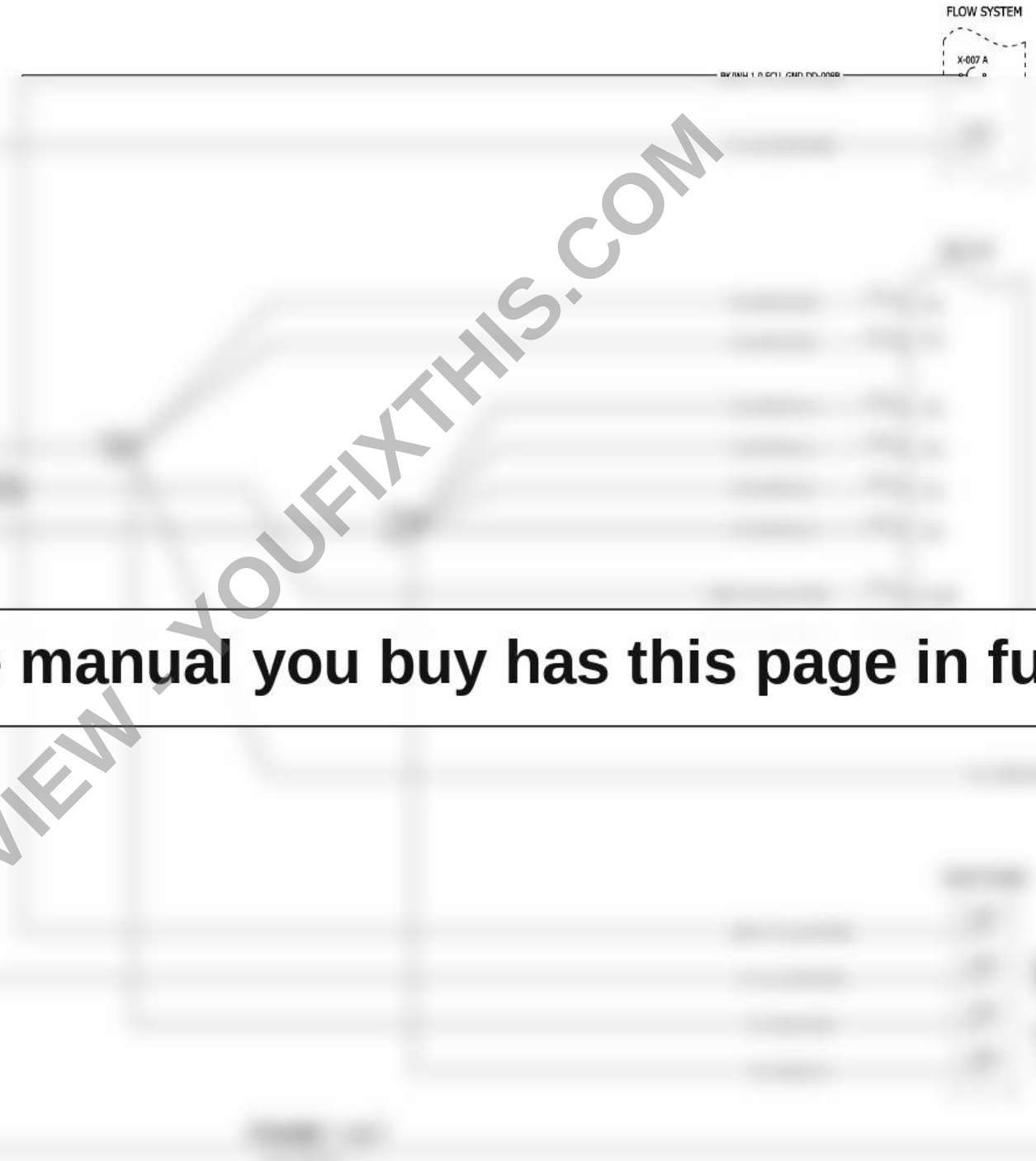


Blurred on purpose. The manual you buy has this page in full quality.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

POWER CONNECTIONS



PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

520193-03-ECU_PWR, Voltage above normal, or shorted to high source

Control Module : Disk Drill Rate ECU

Context:
The Rate ECU detected an abnormally high voltage on its ECU_PWR ("quiet power") supply.

Cause:
High battery voltage, short to high source, or defective component.

Possible failure modes:

1. Failed tractor alternator resulting in high ECU_PWR voltage.
2. High short on ECU_PWR to a voltage greater than **16 V**.
3. Faulty Rate ECU hardware or software.

Solution:

1. Determine if the fault code is still active:

   Cycle system power or reset the Rate ECU.

   Select UTIL > FAULT and check both ACTIVE and INACTIVE faults. Refer to **Electronic control - Check faults (55.516)**.
   Review: Fault Count, First Time, Latest Time

   Also view the voltage/current/frequency bar graphs for the faulted signal as measured by the Rate ECU.
   Select DIAGN > MONTR and choose ECU_PWR. Refer to **Electronic control - Check monitor (55.516)**.

   A. Fault 520193-3 is active. Go to Step **2**.

   B. Fault is inactive. Continue operation and monitor for recurring fault.

2. Disconnect the IBBC (Implement Bus Breakaway Connector) at the rear of the tractor **X-001** or air cart **X-201** if a tow-between air cart is connected. Measure the following voltages on the tractor/air cart connector:

Measure with Voltmeter		Measured Voltage	Interpretation and Action
Positive lead	Negative lead		
ECU_PWR (cavity 4)	ECU_GND (cavity 2)	**11 - 16 V**	Normal
		>16 V	Check for failed tractor alternator or high short on ECU_PWR to a voltage source greater than **16 V**.
		<11 V	Should not occur. Double-check measurement, double-check fault code

   A. Measurement normal or fault 520193-3 is active after repair made. Go to Step **3**.

   B. Fault is inactive. Continue operation.

3. Perform the Rate ECU troubleshooting procedure described in **Electronic module - Problem solving (55.640)**.

   A. Fault 520193-3 is active. Reinstall original Rate ECU and contact your service organization.

   B. Fault is inactive. Return to operation.

Wire harnesses - Electrical schematic sheet 02 (55.100.DP-C.20.E.02)
Wire harnesses - Electrical schematic sheet 04 (55.100.DP-C.20.E.04)
Wire harnesses - Electrical schematic sheet 08 (55.100.DP-C.20.E.08)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Contents

INTRODUCTION

Front axle system 25

[25.400] Non-powered front axle 25.1

Rear axle system 27

[27.550] Non-powered rear axle 27.1

Hydraulic systems 35

[35.744] Seeding hydraulic circuit 35.1

[35.912] Hydraulic seeding fan system 35.2

[35.946] Frame positioning lifting 35.3

Wheels 44

[44.511] Front wheels 44.1

Electrical systems 55

[55.000] Electrical system 55.1

[55.100] Harnesses and connectors 55.2

[55.511] Light harnesses 55.3

[55.516] Seeding control system 55.4

[55.517] Cab seeding controls 55.5

[55.640] Electronic modules 55.6

[55.DTC] FAULT CODES 55.7

Metering system 61

[61.904] Product metering 61.1

Seeding 77

[77.100] Product handling and delivery drive system 77.1

[77.101] Seeding fan system 77.2

[77.105] Seeding tool 77.3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual and on machine safety signs, you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury. The color associated with DANGER is RED.

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine damage or property damage. The color associated with Notice is BLUE.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine damage or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

INTRODUCTION

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

	GRADE 2*		GRADE 5, 5.1 or 5.2		GRADE 8 or 8.2		GRADE L9 (Alloy)	
SIZE	Dry **	Lubricated **	Dry**	Lubricated **	Dry**	Lubricated **	Head	Nut
3/4 UNF	237 Nm	176 Nm	353 Nm	271 Nm	515 Nm	380 Nm	359 Nm	393 Nm
	175 lb ft	130 lb ft	260 lb ft	200 lb ft	380 lb ft	280 lb ft	265 lb ft	290 lb ft
3/4 UNC	271 Nm	190 Nm	470 Nm	298 Nm	570 Nm	420 Nm	447 Nm	481 Nm
	200 lb ft	140 lb ft	300 lb ft	220 lb ft	420 lb ft	310 lb ft	330 lb ft	355 lb ft

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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Axle wheel hub - General specification

Hubs and spindles details

Hubs					Spindle max load		Max load
[illegible]	[illegible]	B.C.	Pilot	[illegible]	[illegible]	[illegible]	

PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

Seeding hydraulic circuit - Overview - disk drill with mounted tank

P2085	

7.6 m (25 ft)

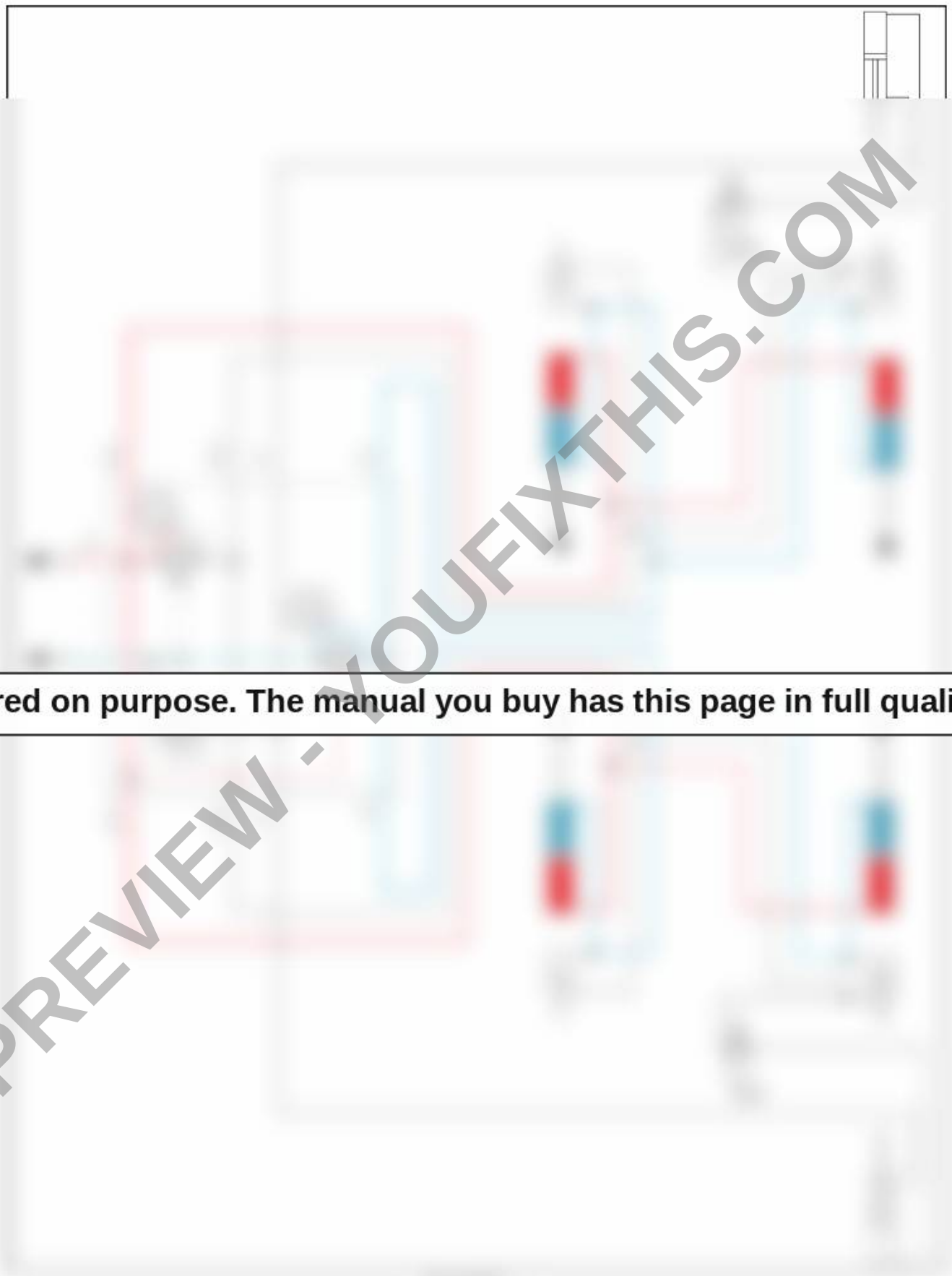
Cylinder size	Quantity	Location / Function
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

Unfold stage 1



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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

2. Remove the head **(16)** from the body **(1)**.
3. Remove the body **(1)** from the gland **(11)**. Remove and discard wear parts – O-ring **(12)** and backup ring **(13)**, as found in the seal kit.
4. Put the piston rod **(2)** in a vise and tighten the vise, without damaging the piston rod outer diameter. Remove the lock nut **(3)** from the piston rod.
5. Remove the piston **(7)** from the piston rod **(2)**. Remove and discard all wear parts – piston seal **(9)**, piston O-ring **(10)** and piston wear ring **(8)**, as found in the seal kit.
6. Remove the gland **(11)** from the piston rod **(2)** . Remove and discard all wear parts – wear rings **(21)**, U-cup seal **(14)** and rod wiper **(15)**, as found in the seal kit.
7. If the clevis **(4)** is to be removed, remove the set screw **(6)**. Pry the seal pad **(5)** from the set screw hole. Put the piston rod **(2)** in a vice and tighten the vice, without damaging the piston rod outer diameter. Remove the clevis from the piston rod.

NOTE: *To ensure proper assembly, measure the distance from the clevis to the end of the threads on the piston rod before removing the clevis.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CNH Industrial Canada Ltd. 1000 - 71 St. E. P.O. Box 1928 Saskatoon, Sask. S7K3S5 - CANADA

SERVICE - Technical Publications & Tools

PREVIEW - YOUFIXTHIS.COM

PRINTED IN U.S.A.

© 2014 CNH Industrial Canada Ltd.

All rights reserved. No part of the text or illustrations of this publication may be reproduced.

NEW HOLLAND policy is one of continuous improvement and the right to change prices, specification or equipment at any time without notices is reserved.

All data given in this publication is subject to production variations. Dimensions and weight are approximate only and the illustrations do not necessarily show products in standard condition. For exact information about any particular product, please consult your NEW HOLLAND Dealer.

Download full manual at youfixthis.com

Wire harnesses - Electrical schematic sheet 02 Flow 12_16_12 power connections

P2085	

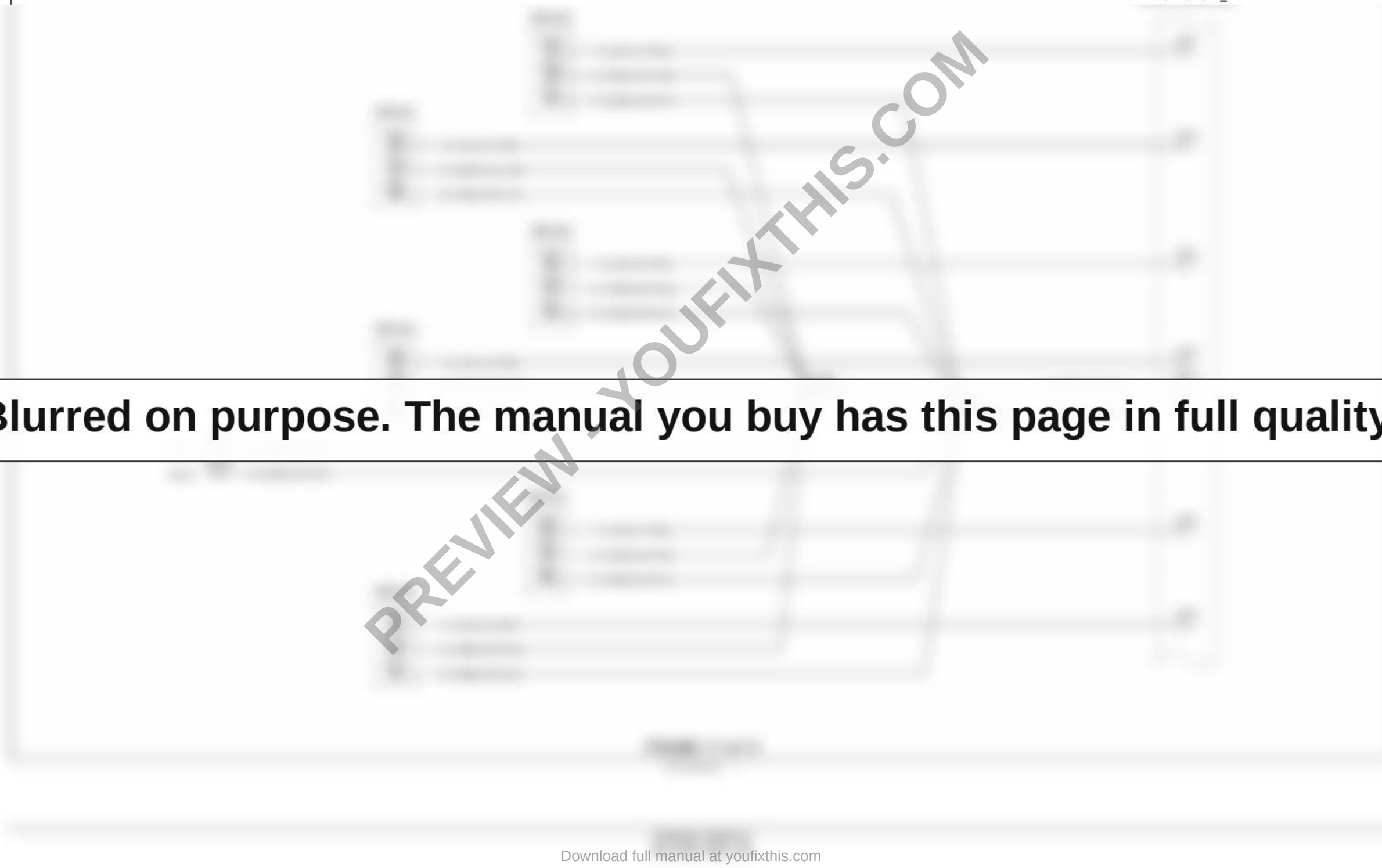
Connector **X-301**
Connector **X-302**
Connector **X-303**
Connector **X-305**
Connector **X-352**
Connector **X-371**

Connector reference:
Wire connectors - Component diagram 30 (55.100)
Wire connectors - Component diagram 35 (55.100)
Wire connectors - Component diagram 37 (55.100)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WING 18: ROWS 13-18



PREVIEW - YOUFIXTHIS.COM

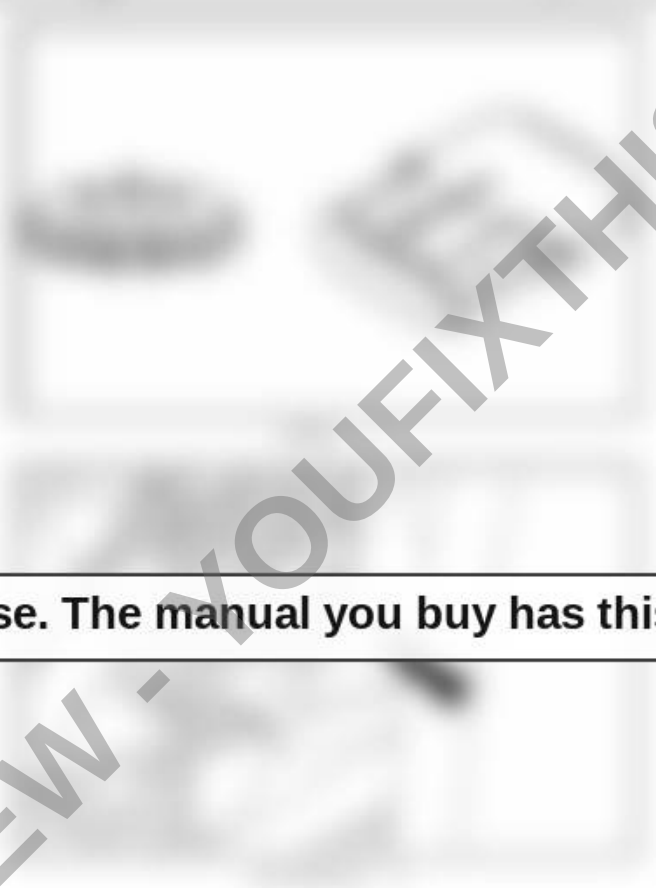
Blurred on purpose. The manual you buy has this page in full quality.

Download full manual at youfixthis.com

Wire connectors - Component diagram 11

CONNECTOR X-110 - TBH/MT POWER

CONNECTOR X-110 - TBH/MT POWER			
PIN NUMBER	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME



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

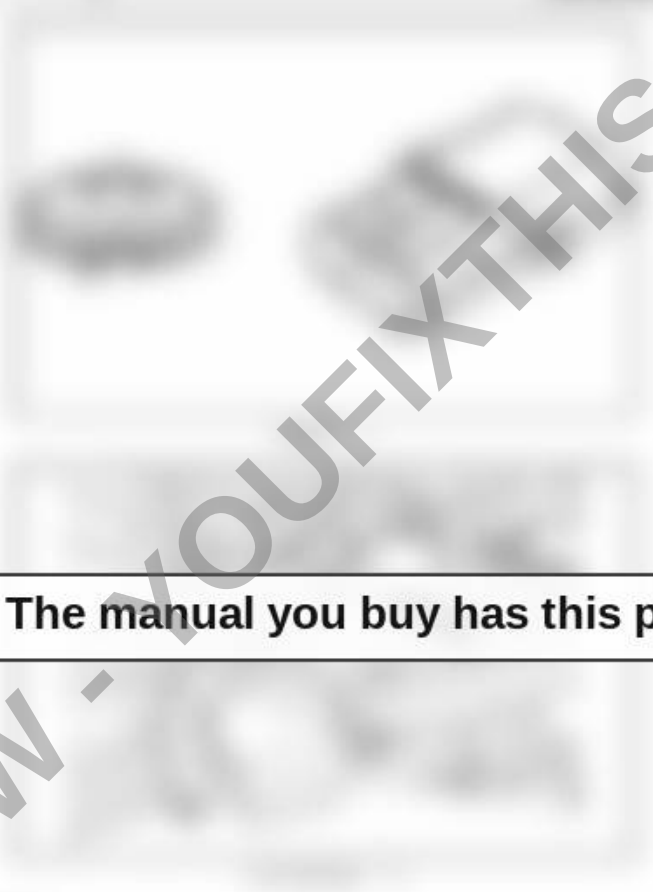
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Wire connectors - Component diagram 33

CONNECTOR X-330 - ROW_C25

CONNECTOR X-330 - ROW_C25			
PIN	WIRE NUMBER	CIRCUIT REFERENCE	ELECTRICAL SCHEMATIC FRAME



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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Seeding control system - General specification - meter clutch

P2085	

Static torque

- **33.9 N·m (300 lb in)**



PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

Flow monitoring - Component diagram 05

P2080	

9 Input Flow Remote Harness with RS232

P1 to P9 - Connector to Flow Sensor 1 to 9



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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Index

Electrical systems - 55

Electronic modules - 640

Controller Area Network (CAN) data bus - Problem solving 4
Electronic module - Problem solving 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Measure with Voltmeter		Measured Voltage	Interpretation and Action
Positive lead	Negative lead		
CAN_L (CAN TERMINATOR, cavity F)	ECU_GND (TBH/MT POWER cavity C)	**0.1 - 2.7 V**	Normal
		> 2.7 V	Check for short to high source in CAN_L wiring on disk drill.

PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

520265-03-Calibration Switch, Voltage above normal, or shorted to high source

Control Module : Disk Drill Rate ECU

Context:
The Rate ECU detected an abnormally high voltage on its calibration switch signal input.

Cause:
Bad connection or open circuit, short to high source, or defective component.

Possible failure modes:

1. Bad connection or open circuit in signal wiring between device and Rate ECU.
2. Bad connection or open circuit in ground wiring to device.
3. High short on signal wiring between device and Rate ECU.
4. High short on ground wiring to device.
5. Faulty device.
6. Faulty Rate ECU hardware or software.

Solution:

1. Determine if the fault code is still active:

   Cycle system power or reset the Rate ECU.

   Select UTIL > FAULT and check both ACTIVE and INACTIVE faults. Refer to **Electronic control - Check faults (55.516)**.
   Review: Fault Count, First Time, Latest Time

   Also view the voltage/current/frequency bar graphs for the faulted signal as measured by the Rate ECU.
   Select DIAGN > MONTR and choose Calibration Switch. Refer to **Electronic control - Check monitor (55.516)**.

   A. Fault 520265-3 is active. Go to Step **2**.

   B. Fault is inactive. Continue operation and monitor for recurring fault.
2. Inspect wires and contacts at both mating ends of all connectors referenced by the diagnostic procedures.

   Repair all contacts that are bent, broken, or improperly seated in their connector housing.

   Clean dirty or corroded contacts.

   Ensure that connector mating ends are securely mated back together.

   Cycle power and check for active fault.

   A. Fault 520265-3 is active. Go to Step **3**.

   B. Fault is inactive. Continue operation.
3. Disconnect the connector at the calibration switch **X-111**. Measure the following voltages on the implement harness connector:

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Measure with Voltmeter		Measured Voltage	Interpretation and Action
Positive lead	**Negative lead**		
CLUTCH_2 (CLUTCH 2, cavity 1)	GND (CLUTCH 2, cavity 2)	**75 %** of battery **+/- 2 V**	Normal
		< 75 % of	Check for open circuit on CLUTCH_2 wire or

PREVIEW - YOUFIXTHIS.COM

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

Download full manual at youfixthis.com

Contents

Seeding - 77

Product handling and delivery drive system - 100

SERVICE

Product handling and delivery drive system
Install - calibration switch and chain guards (*) 3

DIAGNOSTIC

Product handling and delivery drive system
Troubleshooting incorrect application rates (*) 4

PREVIEW - YOUFIXTHIS.COM

(*) See content for specific models

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 672 pages

The full manual includes:

- All 672 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland P2080, P2085 Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual