SERVICE MANUAL

380FP

Header

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MidWestTech | New Holland 380FP Header Service Manual | Publication 47998496

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Contents

INTRODUCTION

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.359] Main control valve 35.2

[35.560] Pickup lift circuit 35.3

[35.661] Grass pickup drive system 35.4

Electrical systems 55

[55.000] Electrical system 55.1

[55.100] Harnesses and connectors 55.2

Attachments/Headers 58

[58.120] Attachment/Header feed auger 58.1

[58.900] Belt feeding 58.2

Product feeding 60

[60.220] Pickup 60.1

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Contents

INTRODUCTION

Basic instructions - How to use and navigate through this Manual (*) 3
Foreword - Important notice regarding equipment servicing (*) 10
Safety rules (*) 11
Safety rules - Ecology and the environment (*) 12
Safety rules (*) 13
Personal safety (*) 16
Basic instructions - Shop and assembly (*) 17
Torque (*) 19
Torque - Standard torque data for hydraulic connections (*) 21
Basic instructions - Chain Wear Tables - Roller Chains (*) 28
Conversion factors (*) 30
Product identification (*) 31
Product identification - Machine orientation (*) 32

(*) See content for specific models

MidWestTech | New Holland 380FP Header Service Manual | Publication 47998496 Order the manual at mid-west-tech.com >

Contents

Hydraulic systems - 35

[35.000] Hydraulic systems 35.1

[35.359] Main control valve 35.2

[35.560] Pickup lift circuit 35.3

[35.661] Grass pickup drive system 35.4

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Torque - Standard torque data for hydraulic connections

380FP	NA

General information

- Hydraulic connections require a minimum assembly torque in order to provide zero leakage at rated pressure with adequate fatigue resistance. Over-torquing of a hydraulic connection can also lead to leakage or failure. For some connections, NEW HOLLAND requires a different torque value than is listed in the ISO and SAE standards.
- The torque values in this document should be used whenever possible or applicable.

NOTICE: *Always follow the instructions in this manual for specific torque values when you service components. The information in this section is for general guidance only when a procedure contains no specific torque value.*

Tolerance

- The tolerance for all torque values is **± 10 %**. This tolerance must include all assembly variation, not only the torque wrench repeatability.

Lubrication

Application of grease or other lubricants to hydraulic connectors should be avoided. If clean hydraulic oil is already on the connection, it is not required to remove the oil. Generally, application of grease:

- May cause a significant change in the torque required to properly tighten the connection.
- May reduce the connection's resistance to vibration.
- Excessive grease may displace an elastomer seal during tightening.
- Grease extrusion when connection is tightened may be mistaken for leakage.

NEW HOLLAND products generally use O-Ring Boss (ORB) connectors that have Teflon™-coated O-rings, eliminating the need for O-ring lubrication during installation. For connections which are made into aluminum manifolds or with stainless steel connectors, it may be required to apply a lubricant to prevent galling.

Use of **LOCTITE®** and other thread-locking compounds is prohibited. These compounds:

- May cause a significant change in the torque required to properly tighten the connections.
- Reduce the serviceability of the joint.
- May prevent the O-ring from properly sealing if the compound gets on the O-ring.

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Cylinder - General specification

380FP	NA

General specifications

Configuration	Double acting cylinder
Maximum work pressure	**210.0 bar (3045.0 psi)**
Maximum speed	**0.4 m/s (1.3 ft/s)**
Maximum pushing force	**10308.0 N (2317.3 lb)**
Maximum pulling force	**6086.0 N (1368.2 lb)**
Weight	**1.3 kg (2.9 lb)**
Oil temperature	**-20.0 - 90.0 °C (-4.0 - 194.0 °F)**
Stroke	**100.0 mm (3.9 in)**
Diameter rod	**ø 16.0 mm (0.6 in)**
Diameter bore	**ø 25.0 mm (1.0 in)**

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Wiring harnesses - Electrical schematic sheet 03

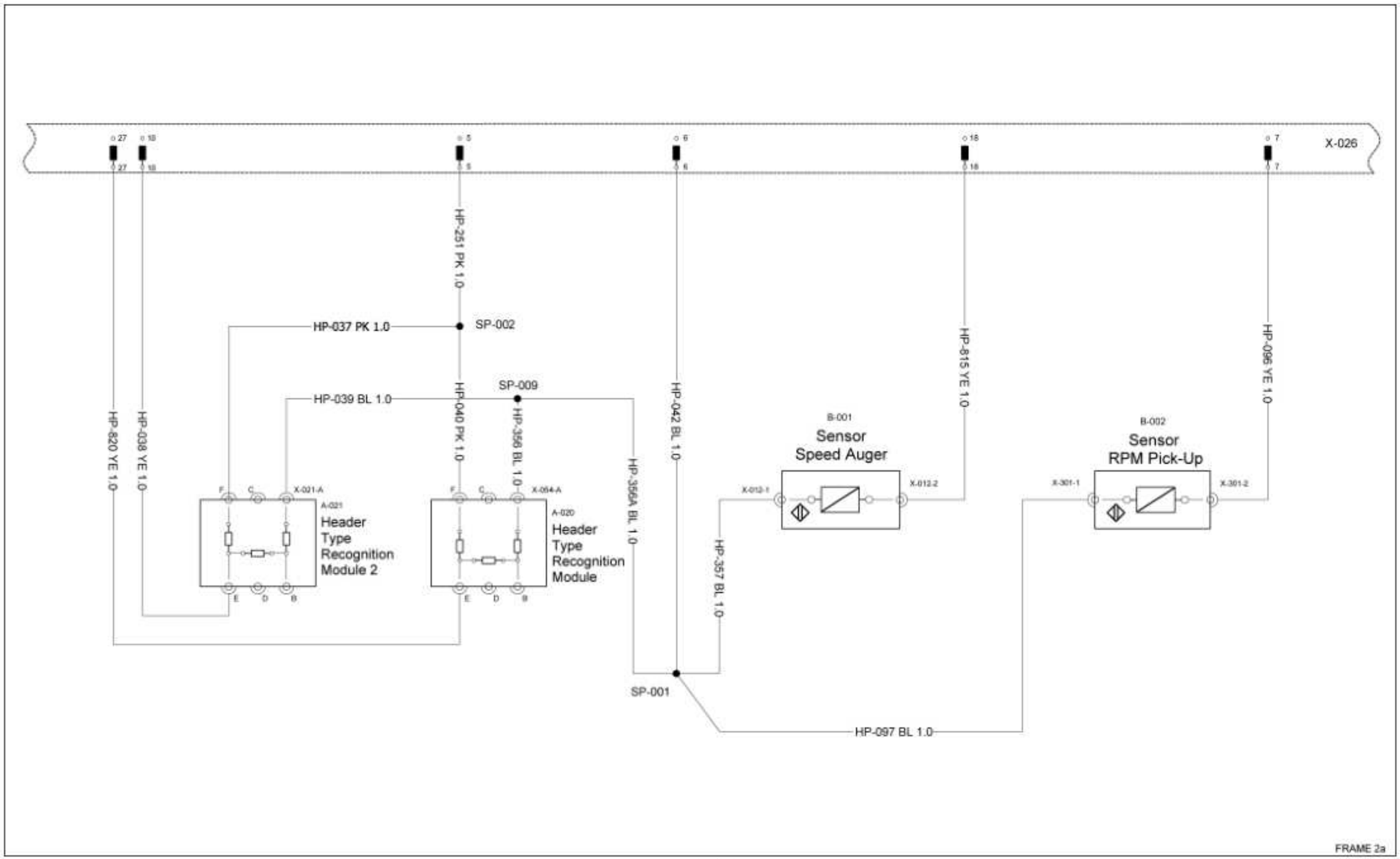
380FP	NA

Frame 3

FP300.....3463 > 3476.
FP380.....3477 > 3476

Component identifier	Description
A-001	Oil pump
S-001B	Interrupter switch wheels valve roller windguard
Y-001A	Wheels valve
Y-001B	Wheels valve roller windguard
Y-001C	Wheels valve roller windguard
Y-001D	Wheels valve

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