DHX182, DHX212, DHX252, DHX302, DHX362 Draper Headers

Repair Manual

87032609

MidWestTech | Case DHX182, DHX212, DHX252, DHX302, DHX362 Draper Header Service Manual | Publication 87032609

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SPECIFICATIONS

HEADERS

MODEL	DHX182	DHX212	DHX252	DHX302	DHX362
CUT WIDTH	5.5 m (18')	6.4 m (21')	7.6 m (25')	9.1 m (30')	11 m (36')
WEIGHTS					
Header (w/o Reel) Transport Assembly or Lift Arm	815 kg (1796 lbs.)	900 kg (1984 lbs.)	1036 kg (2283 lbs.)	1232 kg (2716 lbs.)	1458 kg (3214 lbs.)
BAT REEL	136 kg (300 lbs.)	159 kg (350 lbs.)	181 kg (400 lbs.)	228 kg (502 lbs.)	266 kg (590 lbs.)
PICKUP REEL UII UNIVERSAL, 5 BAT, STEEL TEETH	223 kg (490 lbs.)	255 kg (562 lbs.)	283 kg (624 lbs.)	327 kg (720 lbs.)	446 kg (980 lbs.)
PICKUP REEL HCC ML, 6 BAT	228 kg (502 lbs.)	257 kg (566 lbs.)	284 kg (625 lbs.)	326 kg (718 lbs.)	402 kg (886 lbs.)
TRANSPORT AXLE/HITCH TUBE PACKAGE	96 kg (210 lbs.)	96 kg (210 lbs.)	96 kg (210 lbs.)	96 kg (210 lbs.)	96 kg (210 lbs.)
KNIFE DRIVE					
Single	Standard	Standard	Standard	Standard	Standard
Double	Optional	Optional	Optional	Optional	Optional

OPTIONS

*Bat Reel - 5 bat, 1372 mm (54") diameter.

*Pickup Reel - 5 bat, 1067 mm (42") diameter Universal UII Pickup Reel, wire or plastic fingers.

*Pickup Reel - 6 bat, 1118 mm (44") diameter HCC ML Pickup Reel, plastic fingers.

*Cutter bar and skid shoes.

*Cross auger.

*Swath Delivery Kits - Hydraulic deck shift; DHX252 and DHX302 Only.

*Castering Gauge Wheels

*Header Transport Assembly

*Remote Canvas Speed Control

*End Gauge Wheels

*Hydraulic Fore/Aft Reel Adjustment

*Hydraulic Header Tilt

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TROUBLESHOOTING

TROUBLESHOOTING CHARTS

Use the following troubleshooting charts to identify and correct problems in reel lift systems.

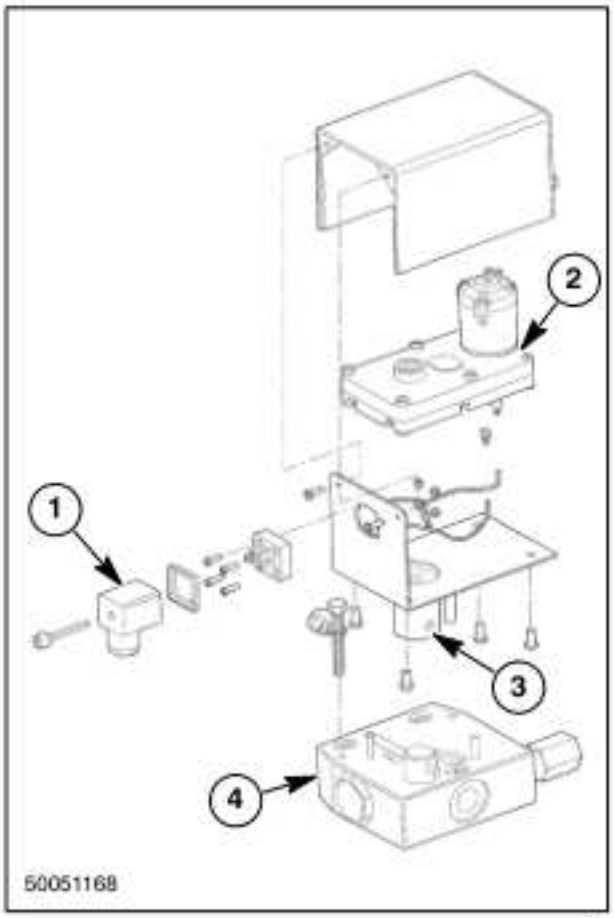
PROBLEM	POSSIBLE CAUSE	SOLUTION
REEL		
Reel will not hold height.	Leaking hose or fitting. Valve in windrower leaking.	Repair or replace. See Windrower Operator's Manual.
Reel will not hold level.	Leaking hose or fitting. Air in system. Faulty master cylinder. Leaking cylinder seal.	Repair or replace. Bleed slave cylinder. Repair or replace. Replace seal.
Reel raises or lowers erratically and/or reel will not raise.	Reel cylinders binding. Arms bent or binding. Low hydraulic oil. Hydraulic couplers don't match. Hydraulic couplers not engaged. Faulty hydraulics.	Replace cylinder. Repair or replace. See Windrower Operator's Manual. Install correct couplers. Re-couple properly. See Windrower Operator's Manual.
Reel raises slowly.	Elbow in master cylinder too tight.	Loosen fitting.
Damage to center of reel.	Reel set too low.	Adjust height.
Reel hitting at end.	Reel not centered.	Adjust centering.
Reel will not turn or turns erratically.	Flow control set too low. Faulty relief valve. Seized bearing(s). Faulty drive motor. Reel tied down. Hydraulic couplers not engaged.	Advance setting. Clean or replace. Replace bearing(s). Replace motor. Release reel. Re-couple properly.
Reel speed cannot be adjusted. - Header driven reel.	Poor connection in electrical wires or cable. Defective reel speed motor. Faulty flow control.	Check connections and cable. Replace motor. Replace flow control valve.
Single Reel		
Reel does not raise level.	Air in system.	Bleed slave cylinder.
Right side goes up slow.	Air in system. Restricted hydraulic hose. Restricted bundy flex.	Bleed slave cylinder. Replace hose. Replace bundy flex.
Right side will not raise.	Leaking hose, fitting, or cylinder.	Repair or replace.
Left side goes up slow.	Faulty piston seal.	Replace seals.
Left side will not raise.	Faulty cylinder. Faulty bypass port. Faulty piston seal.	Replace cylinder. Replace cylinder. Replace seals.

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REMOTE REEL SPEED DRIVE

The WDX1002S/1202S/1202/1902/2302 windrowers require the reel drive to be plumbed into the header hydraulic circuit. To control the speed, an electric motor is mounted to a hydraulic flow control. The power unit will have a switch mounted into the control panel. The switch will be a momentary "on" type. When flipped one way, the motor will adjust the flow control to increase the speed of the reel drive. When flipped the other way, the current reverses the switch, reversing the motor. This will decrease the flow to the reel drive, slowing the reel down. The momentary switch will allow the operator to adjust the speed in small increments. The switch returns to the neutral position when released.

1. Conn. Female
2. Gear Motor 1.55 RPM 12V DC
3. Motor Adaptor
4. Flow Control Valve



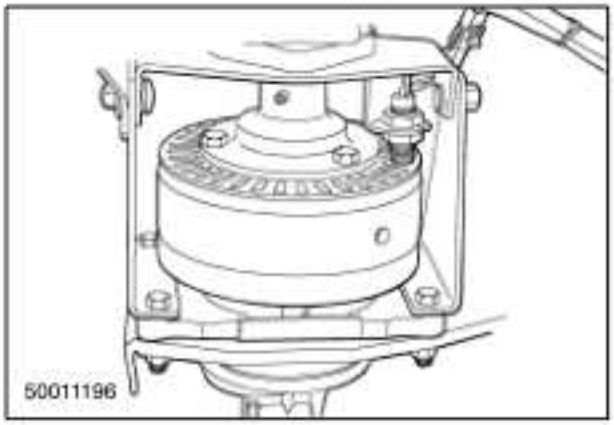
5

SICKLE DRIVE SPEED SENSOR

The WES (Windrower Electronic System) monitors the sickle drive speed from the speed sensor located at the left sickle drive gearbox. As the sickle speed changes the WES will control the oil flow to the sickle drive motor to speed up or slow down the drive to maintain proper sickle speed.

SENSOR TO PULSE WHEEL ADJUSTMENT

1. The sensor should be positioned to provide a gap of 0.762 - 1.52 mm (0.30 - 0.60") between the pulse wheel and sensor.
2. The sensor should be centered on the pulse wheel slots.



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