

FITTING AND OPERATING INSTRUCTIONS

H & B Technik CHAFF SPREADER

Case IH Axial Flow

1660/2166/2366

1680/2188/2388

H & B-TECHNIK

Maschinenbau · Landtechnik · Edelstahl



List of pieces Chaff Spreader

- 1) 2 black frames for trailer coupling carrier and chaff spreader frame
- 2) 1 black chaff spreader frame
- 3) 1 zinc plated guide metal plate
- 4) 2 chaff spreader units with hydraulic motor
- 5) 2 red guide metal plates with rubber and 2 brackets
- 6) 1 bracket for solenoid valve
- 7) 1 hose with 2 x 90° fittings and connection piece 2 x thread-piece (metric) = connection between the 2 hydraulic motors
- 8) 2 short hydraulic hoses with exit 90° (to be fitted at solenoid valve)
- 9) 1 long hydraulic hose (right entrance of left hydraulic motor to solenoid valve at cabin platform)
- 10) 1 middle long hydraulic hose (right exit of right hydraulic motor to Gresen-Valve)
- 11) 1 hydraulic hose with 1 x 90° fitting, 1 x straight (Gresen-Valve to front)
- 12) 4 screws M 16 with nuts (for chaff spreader frame)
- 13) 10 flat head screws with nuts (for zinc plated guide metal plate)
- 14) 1 Gresen-Valve with 3 ports
- 15) 1 T-adapter, short (inch)
- 16) 2 fittings (inch)
- 17) 1 connection fitting (inch)
- 18) 1 T-adapter, long (inch)
- 19) 2 connection fitting with 2 x thread-piece (inch)
- 20) 3 x 90° fitting (inch)
- 21) 1 PARKER control-valve with arrow showing flow of oil
- 22) 1 solenoid valve with 3 ports, wire for earth and wire for current
- 23) 2 long screws with washer, spring washer and nut
- 24) 1 blue cable clip

If the combine has a hydraulic reverse system, a one way valve has to be fitted into the return line of the reverser gear.

- 25) 1 ARGUS one way valve with arrow showing flow of oil







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The H & B CHAFF SPREADER is working only in connection with
H & B COMBINATION HOOD

This instructions have been documented and photographed on a Case IH Axial Flow 2388, built 2003. Other models and older combines could be different, please follow advices of this instruction. Technical changes and error reserved.

 	 	 
<p>1) delivery extend</p> <p>a) photo on top shows transport packing b) photo below shows main components of delivery extend</p> <p>Please check whether all components are delivered by using list of pieces</p>	<p>2) fitting</p> <p>a) drain hydraulic oil of combine b) remove lower wind wings from discs of combination hood (2 or 3 pieces per disc, depending of year of construction of the hood) c) remove trapezium sheet metal from axle cover d) unscrew 6 screws of trailer coupling carrier and take trailer coupling carrier out.</p> <p>e) Attention: relieve the load of back axle of combine, for example by using a heavy jack!!</p>	<p>f) Unscrew 8 screws of frames for trailer coupling carrier and take them out.</p> <p>g) Fit new delivered black frames for trailer coupling carrier and chaff spreader frame. h) Fit trailer coupling carrier with 2 old screws use the middle holes of the 5 holes at each side, than flap it up and fit new delivered 4 longer screws in back holes, do not fit nuts now.</p>

		
<p>3) Fitting of new black chaff spreader frame and chaff spreader units with hydraulic motors</p> <p>a) put on new black chaff spreader frame, tie nuts only handtight. Those screws were fixed later when spreader is in right position.</p>	<p>b) Fit hydraulic fittings on motors. Unscrew 90° fittings and connection pieces 2 x thread piece (metric) from connection hose and fit them into the left port of each hydraulic motor. Fit a 90° fitting (inch) into the right port of each hydraulic motor.</p>	<p>c) Remove shaft collar from swing axle of chaff spreader units, put in those into the brackets of the frame (2 washers on top) and fix shaft collars. Engage units. The grommets could be turned to the working wide of the combine. They could then be fixed with a screw and two locknuts below.</p>

		
		
<p>d) Fit connection hose between the two hydraulic motors using both left ports. The hose will be fixed later with the 2 hose clamps at the backside of the frame.</p> <p>e) Fit red guide metal plates with rubber showing to the middle, use two brackets and screws of spreader units.</p>	<p>f) Lay zined guide metal plate on axle cover, adjust it so, that both lower triangle throat plates show into the units.</p> <p>When spreader is in right position, now fix the 4 screws at the frame.</p> <p>Drill holes for 4 flat head screws to fix zined guide metal plate. Then take axle cover out and drill holes for last 6 screws and fix screws.</p>	<p>4) Connection of hydraulic</p> <p>a) Fit bracket at solenoid valve using 2 screws M 8 x 120, each 2 washers, 1 spring washer and nut.</p> <p>Fix 2 short hydraulic hoses with exit 90° at solenoid valve (1 x port "TANK", 1 x port "REEL DRIVE"). Fit 90° fitting (inch) at port "SPREADER MOTOR" of solenoid valve. Fit wire for earth of solenoid valve at bracket.</p>



b) Fitting of Gresen-Valve
 Fit connection fitting with 2 x thread-piece (inch) at left side of Gresen-Valve, where type plate is fixed.
 Fit at the other side connection fitting (inch).
 Fit on top T-adapter short (inch).

Fit Gresen-Valve between the lower hose of reel pump (type plate looks down)

c) Fit short hydraulic hose at right port of right hydraulic motor and route him to the front to the lower port of the T-adapter of Gresen-Valve

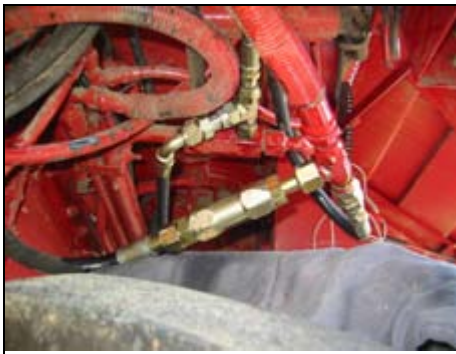
d) fit long hydraulic hose at right port of left hydraulic motor and route him to the front up to the cabin platform.

e) Take solenoid valve with bracket and drill 2 new holes into the plate below the door at the side of the cabin platform. Fix long hose at 90° fitting (inch) at port "SPREADER MOTOR" of solenoid valve. Fit the bracket.

f) Fit connection fittings at Parker control valve. Use connection piece 2 x thread-piece (inch) at entrance/left side of valve (arrow shows to right side) and connection fitting at exit/left side of valve.

Remove both connections of collection-piece of the return line.

Fit Parker control valve with connection piece 2 x thread-piece (inch) at old hose, other side at existing T-adapter (arrow on valve shows direction to existing T-adapter)



g) Fit new delivered T-adapter long at hose coming from exit "TANK" of solenoid valve.

Now take hydraulic hose with 1 x 90° fitting, 1 x straight and fit 90° fitting at the lower part of new long T-adapter. Route the hose back to the upper part of new t-adapter short at Gresen-Valve and connect it.

h) Connect the fitting at the back of the new T-adapter long with collection-piece of the return line.

Connect hydraulic hose coming from "REEL DRIVE" of solenoid valve at the back side of existing T-adapter.

Fasten the routed hydraulic hoses with self-locking straps so, that they do not chafe on something.

Lay the hoses at the back of the combine into the 2 hose clamps at the backside of the frame and fix them.

i) If the combine has a hydraulic reverse system, a one way ARGUS valve has to be fitted into the return line of the reverser gear (arrow direction up).

Please inform us about hydraulic reverse or not when you order the chaff spreader.

On a Case AF with cutterbar type 1030 we recommend to fit a stronger reel hydraulic motor. – More information at H & B-Technik



Now fitting is finished.

Make sure that all screws and fitting connections are tight right and that all tools and resources are removed from the combine

Attention: the chaff spreader units have to be engaged/secured with the bolt all times, above all on the road! Only for work at the sieve pan the chaff spreader units should be swung away.

Now fill up hydraulic oil of combine and start trial run.

5) Electric

Route the long wire of the solenoid valve alongside the tubes and hoses to the wire-plug-connection of the solenoid switch of the " P1 " valve.

Find out the current carrying wire which turns on the threshing mechanism.

Attention: wire is current carrying only if threshing mechanism is on!

Connect the wire with the delivered blue cable clip on current carrying wire.

Attention: The chaff spreader is a very fast turning equipment, which could also throw out small stones or other hard materials to the sides with high speed.

Please make sure before each switching on of threshing mechanism and also during the work with the combine and chaff spreader, that there are no persons, animals or other sensitive objects in reach of the chaff spreader.

Please inform also user/driver of combine about our safety regulations.

Observe furthermore security instructions of the combine!