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## **FITTING AND OPERATING INSTRUCTIONS**

**H & B-Technik combination hood**

**Case IH Axial Flow 1660/2166/2366 and 1680/2188/2388**

You will find this fitting and operation instructions and also more photos shortly on our homepage

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# FITTING AND OPERATING INSTRUCTIONS

## H & B-Technik combination hood

### Case IH Axial Flow 1660/2166/2366 and 1680/2188/2388

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

Most of the original bolts, screws and splint pins will be used again for fitting of combination hood.

		
<p><b>1) preparation of fitting</b></p> <p>a) Dismantle the discs.  b) Remove safety frame  c) Remove guide plate with rubber  d) Remove triangle plate  e) dismantle red/white warning plates  f) <b>Important:</b> fit small pulley on the gear box which drives the discs of combine ( Case original part, older models = delivered with each combine; new models = double pulley)</p>	<p><b>2) Shorten top of side rubbers about 20 cm</b></p> <p>a) remove 7 screws on each side  b) put the rubber on flat ground and make it 20 cm shorter on top, use a cutter-knife</p>	<p>c) lay cutted piece on new top border and sign holes and section with pen  d) drill new 9mm long-holes  e) cut out section on right top  f) Fit short rubbers</p>
		
<p><b>3) Changes on axle cover</b>  ( only for combines with original delivered deep discs ),</p> <p>a) take out axle cover ( tie splints, unbolt spring clip, drop cover down and lift it out at the back )</p> <p>b) fit delivered zinked angel plate on axle cover, unscrew 6 bolts, wedge angle plate, adjust it (border must flush) and screw bolts.</p> <p>c) drill 3 new holes 9mm, fix angle plate with 3 flat head screws, washers, spring washers and nuts M 8.</p>	<p>( Flat head screw outside, washers and nuts inside )</p> <p>d) Fit axle cover  e) Fit straps ( pos. 38 ) on side plates in the hole of spring clip, use screws M 10 x 20 with nuts. ( older models -see drawing )</p> <p><b>After you have fitted the complete combi hood adjust axle cover. Take care on pendulum travel of axle and length of red windwings, there must be a distance to axle cover/rubber. If necessary shorten rubber.</b></p> <p>f) bolt spring clip in down hole of straps and secure with splints</p>	<p><b>4) Fitting of cover</b></p> <p>a) Fit delivered angle plate ( pos.1 ) with 6 screws M 8 x 25, spring washer and nut, use existing holes.</p> <p>b) Unfit splints and tie tube out of guiding</p>



**c)** Hold hood cover in position and insert tube ( 2nd. Person needed )



**d)** secure tube with splints.



**e)** Remove on right and left side of combine 2<sup>nd</sup>. and 3<sup>rd</sup> screw of combine cover and fit on that place bracket for height adjustment ( pos.15 ). Use 2 screws M 10 x 20, 4 washers ( 1 inside, 2 distance, 1 outside ), spring washer and nut.



**f)** Fit high adjustment straps with longhole at top wit 2 washers and toggle bolt M 16. At bottom screw M 12, 2 washers and nut.



**g)** Fit rubber cover-fixings ( pos.34 ) with splints.



**h)** Push middle cover plate between side hoods and fix it with rubber cover-fixings



Only for combi hood without electrical adjustment of the side plates:  
Change nuts of deflector-adjustment against turn lock.



**5) Fitting of discs**  
**Flat disc = swath discharge**  
**a)** fit delivered flat disc ( pos. 20 ) at plastic conic ( pos. 21 ). Use 6 flat head screws M 10 spring washer and nuts per side.  
All discs of combi hood are generally working in high position. If your combine was delivered with shaft-extensions for discs, please remove those.



**Discs with wings = distribution of chaff and straw**  
**b)** Determine a right and a left disc and mark those as left and right.  
**c)** Put the discs on the combine end determine the positions of the lower wings. They have to be positioned on the disc in opposite. The wings of the right and the left disc should not have possibility to get in touch ( place those in 90° angle )  
**d)** Remove the discs and unscrew the 3 original fitted Case wings on each disc.



**On 1680/2188/2388 ( combine delivers more straw to the right disc ):**

d) Fit on the **right** disc 6 black, at the back **diagonally cutted** wings. Use holes for basic adjustment “ **moderate** “ ( see drawing ), use 3 flat head screws and nuts.  
Attention: at 2 opposite wings you have to screw also the lower red wing with the open side in turning direction in outside hole. Use middle hole at right side of upper wing for second screw of lower wing. Tighten all nuts at the end of fitting.

e) Fit on the **left** disc 6 black, at the back **straight** wings. Use holes for basic adjustment “ **middle** “ ( see drawing ), use 3 flat head screws and nuts.  
Attention: at 2 opposite wings you have to screw also the lower red wing with the open side in turning direction in outside hole. Use middle hole at right side of upper wing for second screw of lower wing. Tighten all nuts at the end of fitting.

**On 1660/2166/2366 ( combine delivers more straw to the left disc ):**

d) Fit on the **left** disc 6 black, at the back **diagonally cutted** wings. Use holes for basic adjustment “ **moderate** “ ( see drawing ), use 3 flat head screws and nuts.  
Attention: at 2 opposite wings you have to screw also the lower red wing with the open side in turning direction in outside hole. Use middle hole at right side of upper wing for second screw of lower wing. Tighten all nuts at the end of fitting.

e) Fit on the **right** disc 6 black, at the back **straight** wings. Use holes for basic adjustment “ **middle** “ ( see drawing ), use 3 flat head screws and nuts.  
Attention: at 2 opposite wings you have to screw also the lower red wing with the open side in turning direction in outside hole. Use middle hole at right side of upper wing for second screw of lower wing. Tighten all nuts at the end of fitting.

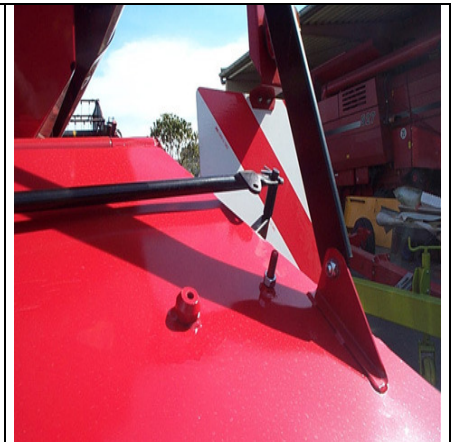


photo showing right disc of AF 1680/2188/2388 with diagonally cutted upper wings and lower windwings.

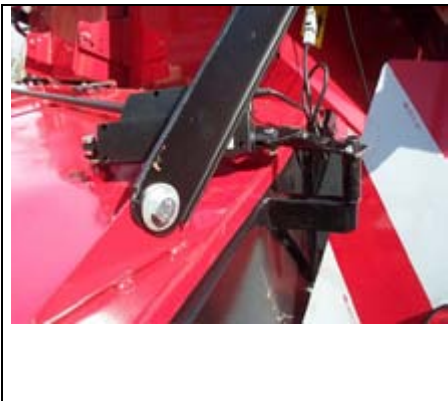


**6) Fitting of electronic adjustment of the side plates from operators seat**

a) Remove the long hole strips of the mechanical adjustment of the side plates ( Pos. 14 )



b) Fit telescopic guide tube ( pos. 40 ) of electronic adjustment of the side plates and secure it with splints.



c) fit electric motor, fasten screw of connecting rod on the hood, motor bracket on the loop of guiding tube.

d) Adjust side panels, depending on the wide of the cutterbar, by turn lock. Fit red/white warning plates and adjust them so, that side panels in widest position do not touch them.



e) Route wire driving direction right side with plastic suspenders along covers of existing wire through plug in side wall into the cabin.

f) Install electric ( wire with fuse on plus, other wire on minus )



g) fit switch in console.



Before starting engine take care, that lower wings do not touch axle cover or other things



Attention: fit discs always in such a position, that lower red wings could not damage each other.



**Fitting of trapezium sheet metal**

Fitt trapezium sheet metal in the midst with 4 screws M 6 x 20, each with washer and nut.



For **shopping** the combination hood will be flapped down and the discs with wings will be used. Place black side plates in widest possible position.



For **swath discharge** the combi hood has to be in horizontal position and the flat discs and strow guiding plates must be mounted with edge on the outside.



You could chose between 3 positions, depending on quantity and quality of strow. Attention: the discs are not allowed to slide on deflectors ( pos. 32/33 ) of strow guiding plates.

**Attention:** When you work in maize/corn with chopper, remove upper and lower wings and fit 3 original Case wings per disc again.

Before you start, make shure, that you have tighten all screws and splints. Regard also all instructions of Case operators manual!