

Rudolf-Diesel-Str. 21-23
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Instructions for assembly and operation of towbar frame, type: WUB 901 ECE-Type Approval No. E4-55R-010672

Assembly for the designs A and B:

Mount the two lateral sheets of the towbar frame on the exterior vehicle frame using a minimum of 12 bolts per side. The drilled holes in the vehicle frame must be designed as follows. Lateral sheets to GL = 750 mm: 2 rows of holes of at least 6 holes each row. The horizontal spacing of the rows of holes must be at least 50 mm, the vertical spacing of individual holes 120 mm minimum. Lateral sheets over 750 mm to 850 mm: 3 rows of holes of at least 4 holes each row. The vertical distance of the rows of holes must be at least 60 mm, the horizontal distance of the holes must be at least 50 mm. The lowest distance between the first hole of each row of holes from the edge must be 30 mm minimum from the upper edge, and 35 mm minimum from the lateral edges.

If there is not enough space to provide 6 holes in the lower row of holes, the upper row should have at least 7 and the lower row at least 5 holes.

If there is not enough space to provide the first hole of a row with a distance of 35mm from the lateral edge there must be used special washers from WAP for bolting.

Assembly for designs C though F:

In these designs, the drill pattern is defined in the lateral sheets.

Use the following junction pieces for assembly:

Hexagonal screws M 16 DIN 933 – 8.8, optional 10.9 Hexagonal nuts M 16 DIN 980 –8, optional 10
The tightening torque is 195 Nm for property class 8.8 and 290 Nm for property class 10.9

Optional WAP set of bolts:

Flange screws M 16 x 1,5 – 10.9 Flange nuts M 16 x1,5 – 10
The tightening torque is 250 +10/0 Nm

Make the drilled holes in the vehicle frame exactly in accordance with DIN standards.

Attention! No weldings on the cross-head!

You may mount a towbar appropriate for assembly into the towbar frame.

Assembly must comply with the mounting instructions of the clutch manufacturers.

You may bolt a WAP cable remote control to the towbar frame (see Page 5)

In any case, you should comply the mounting directives of the vehicle manufacturer.

Maintenance:

Check once a month, but at most every 20,000 kilometres if fastening bolts of the towbar frame are firmly tightened.

The tightening torque of the bolts connecting the crossmember and the lateral sheets is 395Nm.

The tightening torque of the bolts connecting the crossmember and the strengthening brackets is 195Nm.

Any other instructions for assembly require the prior consent of WAR Fahrzeugtechnik GmbH or an officially recognized expert.

Subject to revision.

Nummer	Datum
MA-038-E	12.08.2016

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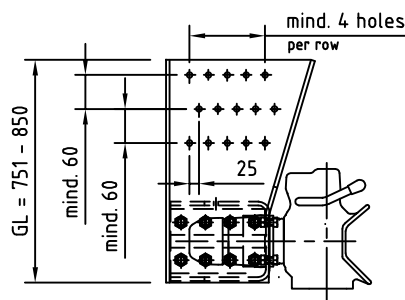
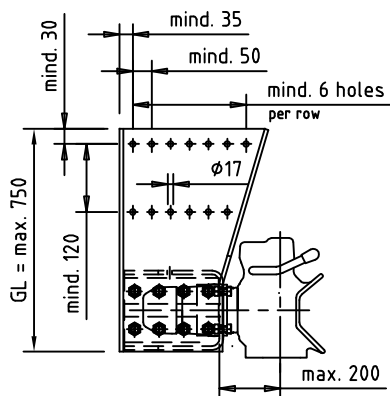
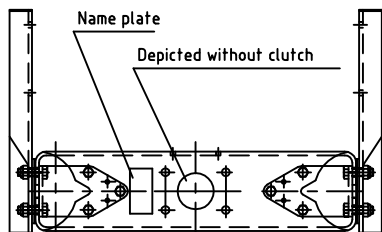
Technical Data WUB 901	
central-axle trailer	trailer
admissible Dc-Value: 140 kN	admissible D-Value: 200 kN
admissible V-Value: 65,5 kN to 90 kN	
admissible vertical load: 1000 kg to 2500 kg, depending on the V-Value (see list on Page 6/6)	

$$D_c = \frac{T \times R}{T + R} \times 9,81 \quad D_c = \text{admissible thrust on drawbar in kN}$$

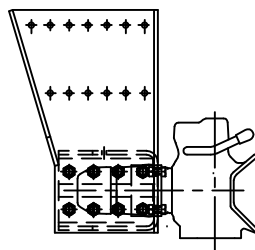
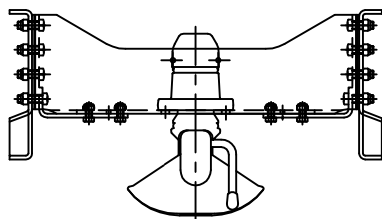
$$T = \frac{D \times R}{(R \times 9,81) - D} \quad T = \text{Total mass of towing vehicle in metric tons}$$

$$R = \frac{D \times T}{(T \times 9,81) - D} \quad R = \text{Total mass of trailer in metric tons}$$

Design A



← direction of travel



Depicted in a mirror-inverted assembly of lateral sheets.

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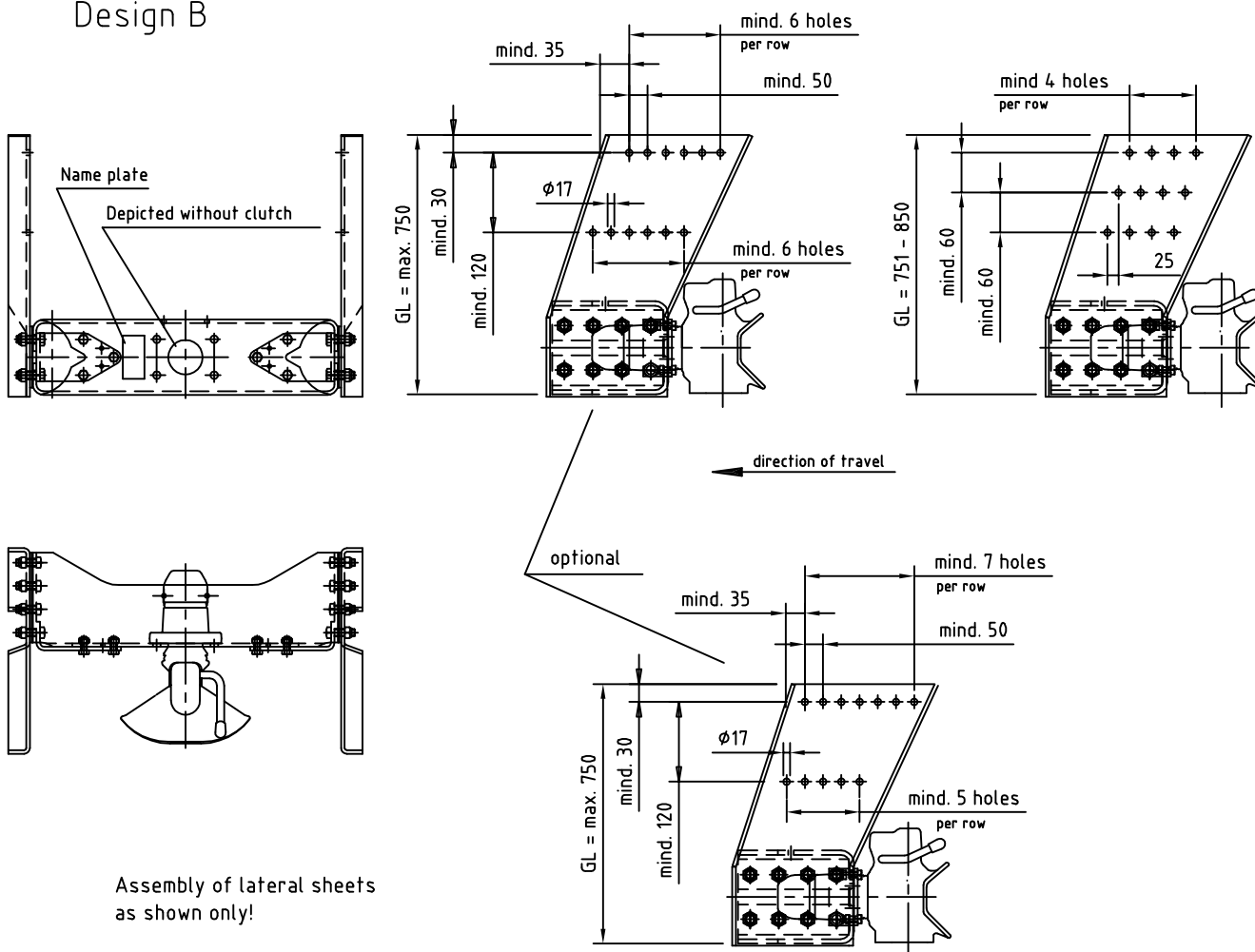
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Design B



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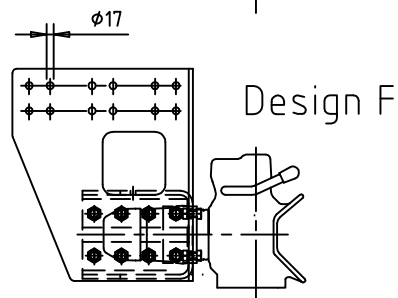
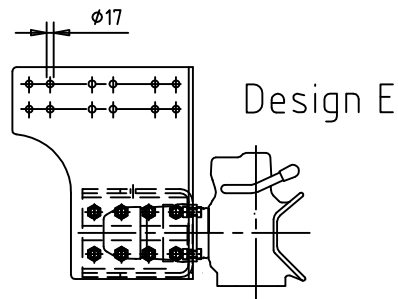
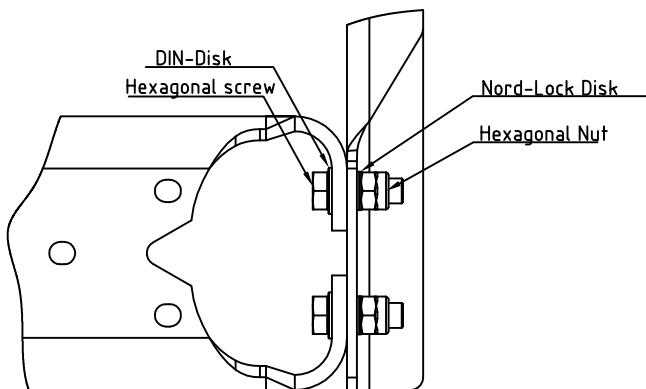
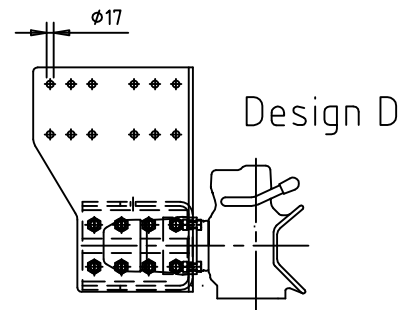
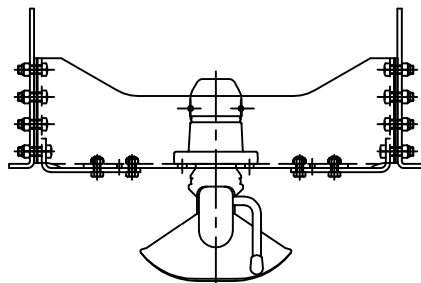
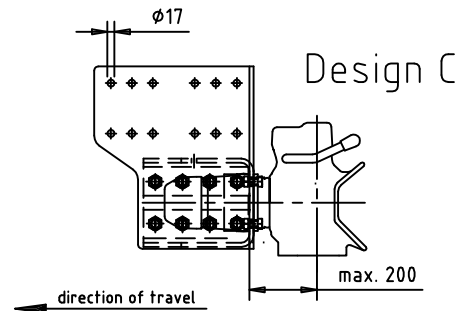
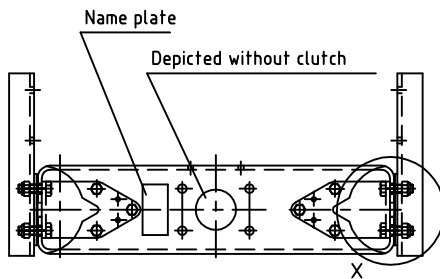
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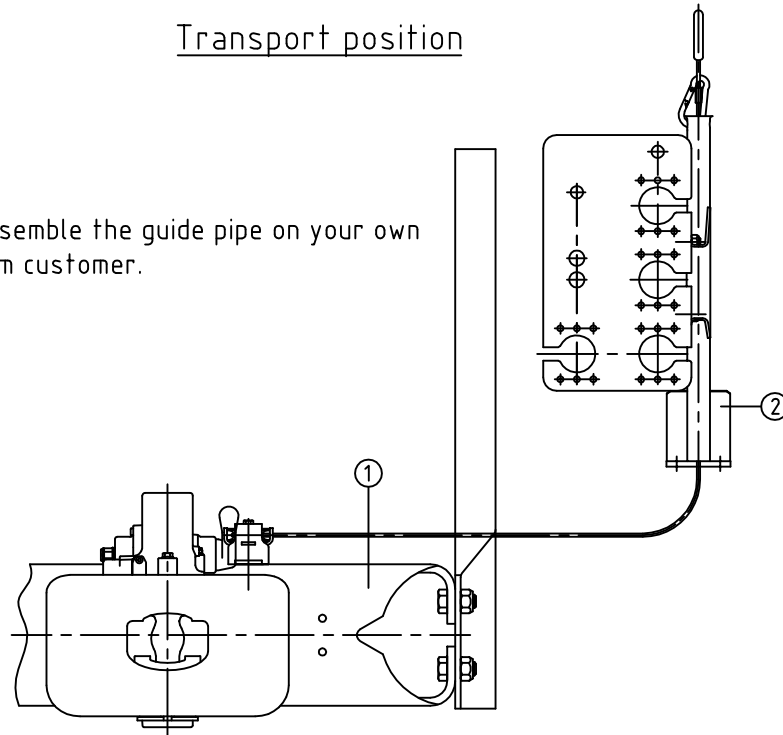
$$R = \frac{D \times T}{(T \times 9,81) - D} \quad R = \text{Total mass of trailer in metric tons}$$



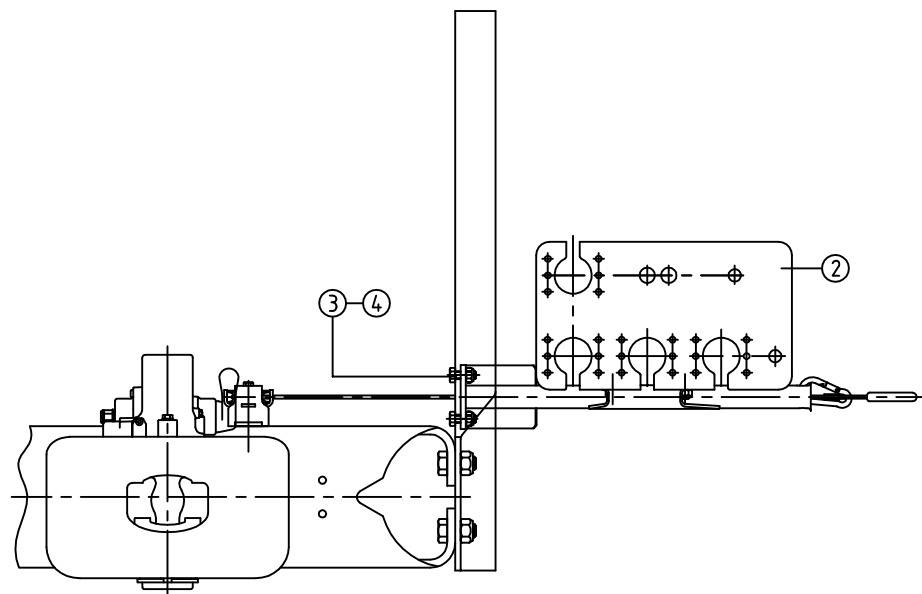
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Transport position

You will have to assemble the guide pipe on your own
after delivery from customer.



Guide pipe assembly



Assemble the guide pipe (Pos.2) to the towbar frame (Pos. 1) using 4
bolts M12×35 (Pos.3) and Nuts (Pos.4).

Tightening torque: 79Nm (M12, 8.8)
width across flats (AF) = 19



Fahrzeugtechnik GmbH

Anhängebock, Typ: WUB 901

Auflistung der Stützlast im Verhältnis zum V-Wert

Stützlast (kg)	max. V-Wert (kN)
1000	90,0
1100	88,4
1200	86,7
1300	85,1
1400	83,5
1500	81,8
1600	80,2
1700	78,6
1800	76,9
1900	75,3
2000	73,7
2100	72,0
2200	70,4
2300	68,7
2400	67,1
2500	65,5

Nummer	Datum
MA-038	09.06.2006