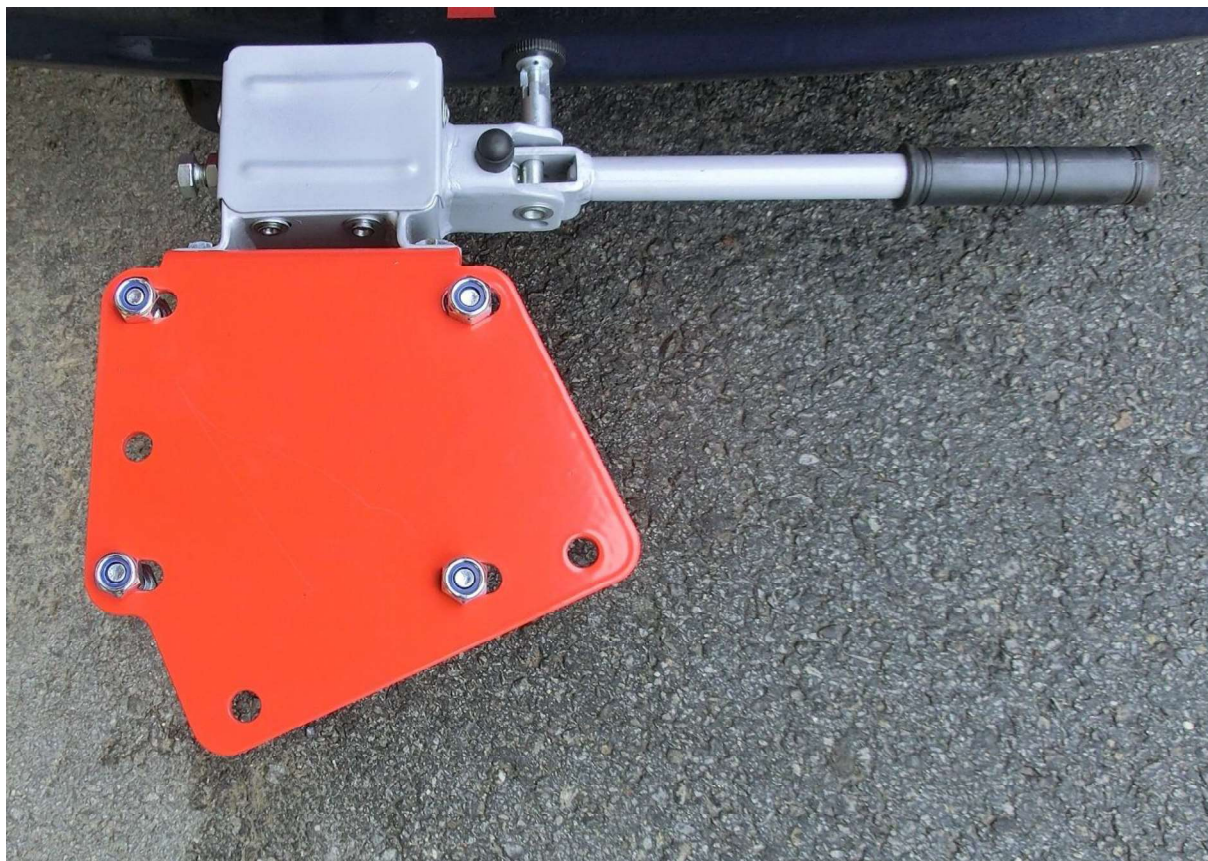


COUPLING HITCH ATTACHMENT KIT

00300-2-107

TECHNICAL DATA SHEET / MOUNTING INSTRUCTION



PLEASE READ CAREFULLY BEFORE INITIAL OPERATION!



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1 RANGE OF APPLICATIONS / COMPATIBILITY

ATTENTION!

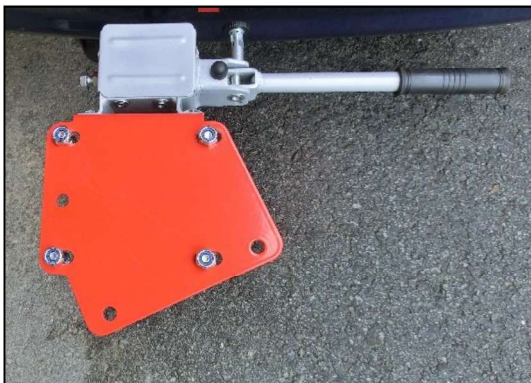
If used with the trailer hitch, the following basic safety precautions must be taken. READ and CONSIDER these statement BEFORE you use the coupling hitch attachment kit.

The coupling hitch attachment kit is approved for use with the following single-disc spreaders:

Type	Max. fill level
KS 40 M2	Can be filled completely
ES 100 M1 Classic	Max. 70 kg seed/scatter material
ES 100 M3 Special	Max. 70 kg seed/scatter material
WD 40 M2	Can be filled completely

Approved mounting of the coupling hitch attachment kit:

mounted straight



KS 40 M2

ES 100 M1 Classic

ES 100 M3 Special

WD 40 M2

mounted at an angle of 25°



KS 40 M2

WD 40 M2

2 MOUNTING THE TRAILER HITCH ATTACHMENT KIT ON THE TRAILER HITCH

The tightening torque of the M10 screws and nuts must be 50 Nm.

Ensure that the coupling ball is undamaged, clean and free of grease. The attachment kit is placed on top of the trailer hitch. Hold the attachment kit level with one hand and, with the other hand, move the clamping lever. Then turn the safety bolt until it locks in place.

Finally, secure the lever with the supplied padlock, as shown in the figures below.



The axle load distribution specified by the vehicle manufacturer is changed by the attachment kit (including the single-disc spreader) that is affixed to the rear. This change to the axle load must not cause the permitted axle loads to be exceeded. Also ensure that the maximum permitted bearing load of the trailer hitch of the vehicle is not exceeded.

ATTENTION!

If an **ES 100 M1 Classic** or an **ES 100 M3 Special** is mounted to the coupling hitch attachment kit, this is only permitted to be filled with a maximum of 70 kg of seed/scatter material. The manner of driving and the speed of driving must be adjusted according to the loading condition and the changed driving behaviour.

Even if the attachment kit (including the single-disc spreader) only partially covers lights and/or the registration plate, the lights of the carrier vehicle and/or the registration plate must be repeated on the attachment kit or the single-disc spreader.

The mounted coupling hitch attachment kit (including the single-disc spreader) must be checked for correct seating before each journey. Furthermore, everything must be checked for intactness, correct assembly and operability before use.

Grease the safety bolt from time to time to prevent rust in difficult operating conditions.

When replacing attachment parts, care must be taken to ensure that replacement parts are of equal value.

3 ORIGINAL MOUNTING INSTRUCTION FROM THE MANUFACTURER HECK-PACK



Assembly instructions and safety instructions for universal carriers with quick-release fastener

Congratulations on purchasing your carrier. This assembly instructions are valid for all common steel trailer couplings.

When using the trailer coupling the following safety measures are mandatory. Please read and follow this advice before using the carrier.

Every step of procedure of the assembly instructions, the general advice and the safety instructions must be complied with. If the carrier and/or the freight are not properly fixed, they could fall off the trailer coupling and result in fatal risk of injury for you and other persons as well as possible damage of your vehicle.

The carrier is designated for transport of affixed goods (not for persons). **The manufacturer's information in the operating instructions for the vehicle on the maximum load on the towbar and, if available, specified payloads specifically for luggage carriers, must be strictly respected!**

Before transport the driver must be informed about possible changes of handling characteristics. The transport of goods leads to fading of the braking efficiency, different cornering ability and worse acceleration due to changes in aerodynamics, weight and balance point. Please be extra cautious when driving with the carrier attached.

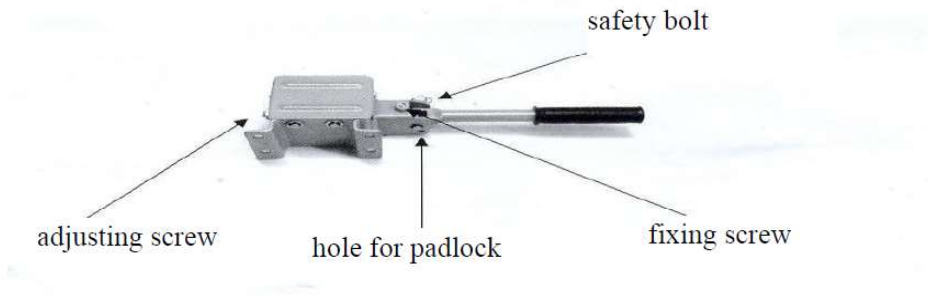
If you should have any problems assembling the carrier and/or fixing the transport goods please contact the seller before use.

Please follow the suggested procedure when assembling the one handed quick-release fastener:

- Be attentive. Act reasonable and safe. Do the assembly only if you are focused.
- After unpacking the carrier you will find a padlock with 2 keys on the fastener. Use it for additional safety (also against theft)
- Assembling of the carrier on the trailer coupling:
Make sure the coupling is undamaged, clean and free from grease. The fixation of the fastener with 4 screws M10 to the flange is factory-provided. If this should not be the case due to transport reasons please find the 4 screws M10 along with 4 locknuts in the basket of the carrier. Please fix the fastener with 2 spanners or box spanners (17). The opening of the basket should point in upwards direction while the black plastic handle of the fastener can be moved upright in the same direction. Please note the screws must be force-locked. Tightening torque should be 70 Nm!
- The carrier must be checked for proper attachment before every use and also during the ride. If necessary, fix the hexagon screw and the counter nut with appropriate tools. Tightening torque should be 70 Nm!
When using the carrier frequently or permanently the screw and the nut should be checked and possibly fixed on a regular basis.
- Please grease the grommet and the ends of the holding bolts of the stop-flat regularly to avoid corrosion.

Assembling to the trailer coupling

Make sure the coupling is undamaged, clean and free from grease! The bolt lever must be put back. Pull the fastening bolt and twist. The carrier in assembled condition is put on the coupling from above. Hold the carrier in horizontal position with one hand. Turn the bolt lever with the other hand. If the carrier is not safe and firm on the coupling, the bolt lever must be put back again and the adjusting screw on the side must be turned with a box spanner (19) or installation wrench and the nut must be locked again (see picture). After that, turn the safety bolt until it snaps into place (see picture). Using the fixing screw an easy snapping of the safety bolt can be adjusted. The carrier must be secured with the safety bolt. If, contrary to expectations, the carrier should not be in horizontal position, please loosen the 4 attachment screws M10 x 25, adjust the carrier into horizontal position and screw down force-locked again. The enclosed padlock must be used for further security, also against theft. To release the carrier, proceed in reverse. Should the safety bolt be stiff, please move the bolt lever down. The safety bolt can be pulled easily now.



5. The freight must be secured and possibly equipped with warning signs, a red flag or the like to avoid loss of freight or damage of third parties.
6. Please take note that the max. coupling load must not be exceeded to prevent breakage of the carrier or the trailer coupling.
7. Check the carrier and the tools for possible damage before further usage. Check moving parts on their function, check especially if the lock nut is properly fixed.
8. Damages should only be repaired by authorized garages or workshops.

Please take the changed dimensions of the vehicle into account, especially when driving backwards.

Do not use a car wash with a carrier equipped.

To reduce fuel consumption, the carrier should be taken off if not in use.

Heck-Pack GmbH & Co. KG mobile Hecktransportersysteme, Unter den Eichen 15, 57635 Weyerbusch
Tel.: 02686/897-788 - Fax: 02686/897 - 800 - info@heck-pack.de www.heck-pack.de

4 TEST REPORT FROM RDW TEST CENTRE LELYSTAD



RDW

Test rapport no.: RDW -74/483 -0645 ext. 01

TEST REPORT

TEST CENTRE



Statement concerning the external projections of separate technical units in accordance with Council Directive 74/483, as last amended by Council Directives 2007/15/EC.

- 0.1 Make : Eufab / LAS
0.2 Type : Quick release coupling, art.no: 11402
Variety : Coupling for luggage rack, which can be fitted on the coupling ball (Ø50 mm) of a vehicle.
0.5 Name and address of the manufacturer : EAL GmbH
Otto-Hausmann-Ring 107
42115 Wuppertal
Germany
Test(s) conducted by order of : See 0.5.

Tests : The tests are carried out in accordance with Annex I & II (with regard to separate technical units) of the above mentioned Directive.
Remark: Only the attachment was assessed.

Documentation : See ~~attached photographs (total of 5 pages)~~. No documentation is attached to this extension. The documentation of the original report is still valid.

Conclusion : The type of luggage rack does / ~~does not~~^{are} comply with the requirements.
There are no / ~~are~~^{are} objections to granting approval under the above mentioned Directive.

Test date(s) : 26-01-2010, 21-12-2010

By : F. Kleinbussink

Lelystad, 21 Dec. 2010
The test engineer,

RDW Test Centre Lelystad
Talingweg 76
8218 NX Lelystad
The Netherlands



F. Kleinbussink

RDW TEST CENTRE LELYSTAD

EXPLANATION OF THE CHANGES MADE TO THE TESTREPORT

Concerning **CORRECTION/EXTENSION***

Belongs to reportnr.: **RDW-74/483-0645**

Changes concerning the pages: all pages

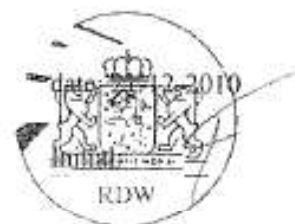
Remark: The changes in the report are marked by reference.

Explanation of the changes:

Item 2 from page 3 was re-tested (see also RDW-74/483-0722).

wp05199a.r01/1:1/e

74-483 EC Luggage racks.r02.doc



RDW Testcentre Lelystad
Luggage and ski racks (Annex 1, 6.16 & 6.18)

Annex: 1

6.16.1 Attachment	Pass / Fail *
Positive locking should exist in, at least, one direction.	
Load-bearing capacity, as specified by the manufacturer:	See below
Horizontal, longitudinal and transversal forces can be transmitted which are, at least, equal to the above mentioned vertical load-bearing capacity.	

6.16.2 External projections	Pass / Fail *
Surfaces which, after installation of the rack, can be contacted by a sphere of 165 mm diameter shall not have parts with a radius of curvature less than 2,5 mm (unless the provisions of 6.3 can be applied).	

6.16.3 Fastening elements	Pass / Fail *
Fastening elements shall not project more than 40 mm beyond the surfaces referred to in 6.16.2.	

6.18 Assembly instructions	Pass / Fail *
The assembly instructions shall contain sufficient information to enable the approved component(s) to be mounted on the vehicle in a manner that complies with the relevant provisions in items 5 & 6.	

* Strike out what doesn't apply.

Remarks:

This test was executed because of the introduction of a new quick-release-coupling: This coupling will be used on a number of luggage racks. The coupling is intended to be used on a standard coupling ball Ø50 mm.

The coupling was fitted on a clean and grease-free coupling ball. The coupling was adjusted for the used ball, according to the manufacturer's instructions. The mechanism of the coupling device was in good working order (lubricated). A force of 45 daN was required to close the coupling.

Two items were tested:

1.

A horizontal force was applied to the luggage rack, at an angle of 90° to the normal direction of traffic. This force was applied at a distance of 49 cm from the centre of the coupling ball.

The coupling ball did not rotate about the ball when a force of 75 daN was applied.

With regards to horizontal rotation a maximum torque of $49 * 75 = 3675$ daNcm is acceptable.

2.

A static load of 80 kg was loaded onto the luggage rack, with an own weight of 21 kg. The centre of gravity was placed at a distance of 38 cm from the centre of the coupling ball.

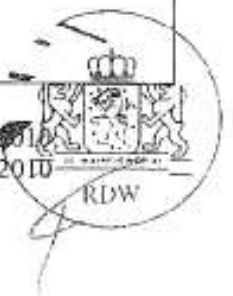
This did not cause any plastic deformation and/or breakage.

With regard to gravity, a maximum torque of $(80+21) * 38 = 3838$ daNcm is acceptable.

(It is assumed that 1 kg equals 1 daN).

Conclusion from both tests: the worst-case situation is the horizontal rotation.

date: 26-01-2010
21-12-2010



Initial:



APV – Technische Produkte GmbH
ZENTRALE
Dallein 15
AT - 3753 Hötzelndorf

Tel.: +43 2913 8001
EMail: office@apv.at
www.apv.at

