

# H&R<sup>®</sup> Mounting-instructions

## **Important product information – must be read before installation!**

H&R suspension components are developed and designed from a sporting viewpoint and have more sporting and tighter handling characteristics than original manufacturer products. The amount of lowering was measured on the vehicle made available to us for test conversion and for testing by TUV (German Inspection Organization), and was confirmed by TUV. Nevertheless, the details on lowering should be treated only as approximate guidelines, and on each vehicle are influenced by the following factors:

- Different engine size, e.g. 4 cylinder or 6 cylinder
- Extra equipment or special aftermarket parts which may increase vehicle weight (gas fuel conversions/ HiFi conversions/ trailers)
- Accessory deadweight can add up very quickly
- Original vehicle model tolerances
- Type and construction of the installed shock absorbers
- Variations in fuel level
- Age and condition of stock springs

Because of these outside influences, we can not accept any liability for the degree of lowering.

H&R suspension components are manufactured under constant quality control and with the greatest of care; nevertheless, even top-quality products may become defective. To avoid damage to the product, please note the following information:

- Do not overload the vehicle, and do not exceed the axle loading prescribed by the manufacturer or TUV.
- Avoid unusual and aggressive driving maneuvers which place excessive demands on the vehicle (racing events, etc.)
- Because of the reduced ground clearance, avoid off-road use.
- Watch your speed to avoid hitting the undercarriage on speed bumps, etc.

H&R suspension components are intended exclusively for use in vehicles which are permitted for use on public roads, and which fulfill the applicable legal requirements. You are unconditionally advised against any other use.

**Make sure that the components are installed only by an authorized mechanic/ workshop. Only these authorized mechanics have the necessary specialized knowledge and equipment.**

### **1. Before installation:**

- Please compare the item delivered with the delivery note
- Please compare the content of the delivery with the parts approval/vehicle type approval
- Please also compare the parts approval/vehicle type approval with the vehicle papers
- Check that the delivery is complete
- Please check that the appropriate tools are available for fitting
- Order any additional parts which may be necessary
- Measure all dimensions relevant to the conversion
- If there are disagreements or deviations, please contact your vendor

### **2. During installation:**

- Work as per the vehicle's factory service manual or workshop manual
- Comply with all details in the technical tips provided with product (installation or mounting instruction)
- Please check that all parts removed function correctly
- Replace defective original parts with new original parts
- Use only suitable tools and equipment for installation and disassembly
- Do not carry out extra work on parts or adapt them to fit

**If products do not match, stop the installation or conversion immediately. The installation of products into vehicles for which they are not suitable can result in severe material damage and physical injury.**

In this case, contact your dealer and explain the problem to him. Keep the vehicle papers and/or technical documentation on hand, so that you can answer any questions which arise. Please ensure that after a conversion is complete, there are not more parts left over than you replaced.

### **3. After the conversion:**

- Use only the tightening and fixing values provided by the vehicle's factory service manual
- Test and adjust the correct securing of all loosened and fitted parts
- Test and adjust the ease of movement of the wheel/tire combination (loaded/unloaded)
- Test and adjust the ease of movement of all axle and steering parts (for all steering movements)
- Test and adjust the ease of movement of all brake parts and brake hoses (for all steering movements)
- Test and adjust the braking system and the adjustment of the load-dependent brake force compensator
- Test and adjust the setting of the headlights
- Test and adjust the setting of the level adjustment
- Test and adjust the setting of the axles
- Measure all dimensions relevant to the conversion

Comply with the authorization permissions and regulations applicable in your country. The following minimum clearances from the road surface are defined in EU test standard ECE 48: edge of headlight opening: 500mm, daytime headlights: 250mm, brake and tail lights: 350mm, fog lights front/rear: 250mm, indicators front, rear, side: 350mm, number plate front 200mm, number plate rear 300mm. The clearance of the trailer connection at the permitted axle loading must be 350mm to the midpoint of the ball head. Ensure that a vehicle acceptance is carried out immediately by an authorized testing organization.

**Non-compliance with this test and adjustment work can result in failure of vehicle systems, material damage and physical injury with severe consequences.**

### **4. Test drive**

- Installing H&R products will alter the handling of your vehicle.
- Therefore, drive with care until you have become accustomed to the altered vehicle characteristics.
- Unexpected vehicle handling characteristics can indicate that the products installed are not suitable for your vehicle, or that there are errors in installation and/or in adjustment to the suspension geometry. In this case, please have the vehicle inspected immediately in a specialist workshop.

**Failure to do so can result in severe material damage and physical injury.**

With some vehicles, lowering of the front axle can result in noises at full steering lock. Noise can also occur due to tolerances when the shock absorbers are extended to their full length. These potential noises are design-related. They may not necessarily indicate a defect which affects driving safety. Installation of noise damping sleeves may help to correct this; they are available from your specialist dealer.

**If you have complaints after purchase and/or installation of H&R products, please contact your dealer.**