

## TECHNICAL GUIDELINES SUSPENSION-PROGRAM H&R

<b>6</b>	Height adjustable at the front axle only
<b>12</b>	The measure of the lowering will be reduced by the measure of the original sport suspension
<b>13</b>	Spacers may be required when the standard wheel / tire combination is used (Wheel offset critical)
<b>17</b>	Adjustable suspension kit is height adjustable within the dimensions as specified in the report
<b>18</b>	Attention: Rasp off the protrusion of the front axle washer or use new OE washer with round bore. Properly tie up the shock absorber wiring after installing the connectors. After fitment of the suspension the controller (OE-ECU) must be reprogrammed (to the status of models without PASM)
<b>23</b>	Send in front strut housing without wheel bearings, ABS brackets, cartridges etc. Damaged strut housings will be either rejected or repaired for extra charge if possible.
<b>24</b>	Cars equipped with rough road suspension (OE-part) are lowered approx. 15-20mm more as they are higher in OE condition. Please note that the CH-Approval is only valid for a lowering of max 40mm
<b>26</b>	On vehicles based on the VW Golf 4 platform (Golf, Bora, A3, Beetle, Leon, Toledo, Octavia) from a lowering of approx. 30mm onwards a contact between driveshaft and anti-roll bar can occur. In case of contact the H&R anti-roll bar 33525-1 must be fitted. This anti-roll bar is mandatory from a lowering of 35mm onwards
<b>32</b>	Depending on engine, gearbox/transmission, equipment and vehicle tolerances lowering may differ from the values given
<b>33</b>	This suspension is a very low version
<b>34</b>	Lowering beyond the dimensions given in the approval may lead to contact of the driveshaft with the chassis
<b>35</b>	OE torsion bars need to be adjusted to lower the vehicle
<b>41</b>	In the case of ordering complete struts these are only for 2.0l 16V, with wheel bearings dia. 72mm and ABS brackets. Vehicles with bigger or smaller wheel bearings struts have to be sent in in advance
<b>42</b>	In the case of ordering complete struts, these are only for Polo B. However, they can also be used for Polo A. Send in Polo B struts only to get back deposit
<b>43</b>	For proper function of the suspension the original rear torsion bar suspension must be removed
<b>44</b>	Send in existing front and rear struts without wheel bearings and other attachments. Refer also to note # 23

<b>45</b>	In case of ordering complete struts, we need additional information: a) struts with or without stabilizer holder and b) bore diameter at the brackets 12mm or 14mm
<b>48</b>	The sway bar link on the front axle has to be shortened by 60mm or the sway bar link OE Toyota Part # 4883017050 has to be fitted
<b>49</b>	Use rear upper spring-pad # 4D0-512-297-6 if not OE fitted
<b>64</b>	Prior to ordering RA shock absorber as spares please check and forward if RA-Shock absorber with single spring of double spring system
<b>65</b>	The lowering dates were determined from the test cars. Please note that the maximum lowering can not be reached with every car. Please refer conditions and notes in the parts approval and also to the technical guideline suspension program 12, 17, 32
<b>66</b>	Before ordering please check the upper front shock fixation (see picture)
<b>68</b>	Two-layer leaf spring cars must be modified into single-layer leaf spring system (VW part # 2K3511151E / optionally 2K5511151E for Maxi or 2K0511151N for Caddy, Caddy Life)
<b>74</b>	In particular cases cars prior to Facelift 2010 (10th position of the chassis no "B") may have the OE front-support bearing with the long pin. Here, the front struts out of 29170-1 and -2 need to be used. Please check, prior to fitment, the length of the upper mount pin of the OE-front-strut: Pin with 75mm length = shock part # 22 15 452-1/1 of coilover 29170-3: -4- pin with 45mm length = shock part # 22 15 452-2/1
<b>75</b>	The installation of this suspension into cars with an electronic damping adjustment (DCC, Magnetic Ride etc) must be done in an authorized (Audi, VW, etc) workshop. The signal of the electronic damping adjustment in the display has to be deactivated
<b>78</b>	Lowering beyond the dimensions given in the approval may result in damage
<b>79</b>	The minimum clearance between tires and suspension/body parts is 5mm. If the clearance is less than 5mm, it has to be restored with wheel spacers or reworking the bodywork