SUSPENSION NOTES

4 BMW 7 series part # 29547; you must measure outside spring diameters of the front and rear springs before you order. Front springs are either 174mm, 180mm, or 190mm. Rear spring diameters are 114mm, or 125mm.

6 Height adjustable only at the front axle.

8 Mercedes-Benz cars ride height may vary due to vehicle options and Mercedes-Benz factory ride height adjustment shims. This original-MB-Part is a rubber shim perch, which is located on the top of the spring. These shims vary in thickness from 8 to 23mm.

12 Lowering height will vary on vehicles with factory sport suspensions such as BMW M-Technik, Mercedes-Benz Sport-line suspension, Audi-Sport suspension, etc.

13 Wheel offset critical. Spacers may be required when the standard wheel / tire combination is used.

19 Additional parts are necessary for vehicles before June 1992.

22 Lowering varies by engine size and model.

26 If your vehicle is equipped with a 42mm diameter sway bar and you are lowering more than 1.4" you must use one of H&R's Audi / Volkswagen front sway bars to accomplish adequate drive shaft clearance.

35 On these vehicles, you must adjust the front torsion bars for lowering.

39 There is a mid-year change in the size of the top of the front springs. Please check to see which tops are in your car. Open the hood and look at the top of the struts. If the struts have a black plastic cap, this should indicate that you have the large spring top. Use part number 54764, 54764-55, 54715-88, 31016-1 or 31016T-1. If there is a round metal top with rubber around it and no plastic cap you should have the smaller spring end. Use part number 54748, 54748-55, 54748-88, 31016-2, 31016T-2, 31016-3, or 31016T-3

40 Performance aftermarket shocks or struts are highly recommended for this application.

43 For proper function of the suspension the original rear torsion bar suspension must be removed.

55 Use original bump stop, spring perch and dust cover if not included. Check original bump stop and dust cover prior to installation. Replace if necessary.

76 Hybrid and Battery Electric Vehicles may only be modified by trained and certified technicians in facilities authorized to work on Hybrid and Battery Electric Vehicles.

TRAK+® WHEEL SPACER NOTES

Installation of wheel spacers requires strict attention to the following guidelines. Modifications may affect the integrity of the product. Therefore, we strongly recommend that our spacers are only used on the vehicles listed. Negligence of these guidelines may result in damage to yourself or your vehicle.

Note: Specifications are subject to changes without prior notice.

3 All DR-Systems require longer wheel bolts. These must be ordered separately, please refer to reference guide for bolt options. When ordering wheel bolts, please follow these guidelines:

a) If possible, name the brand of wheel.

b) New bolts must be longer than the original bolts by the width of the wheel spacer used.

c) The bolt head must be identical to the existing bolt:
Taper 60° End digit 01
Round head for M12/d24 mm, for M14/d28 mm End digit 02
Round head for M12/d26 mm (e.g. OE VAG-wheels) End digit 03
Flat head for Porsche original wheels M14 x 1.5 End digit 06

d) Safety guidelines
(Minimum number of turns for wheel bolts / nuts):
M12 x 1.25 = 8.0 turns = approx. 10 mm of load bearing shaft length
M12 x 1.50 = 6.5 turns = approx. 10 mm of load bearing shaft length
M12 x 1.75 = 6.5 turns = approx. 12 mm of load bearing shaft length
M14 x 1.25 = 9.0 turns = approx. 12mm of load bearing shaft length
M14 x 1.50 = 7.5 turns = approx. 12 mm of load bearing shaft length
1/2" UNF = 8.0 turns = approx. 11 mm of load bearing shaft length

e) Please ensure that the wheel bolts do not damage any part of the brake system (ABS sensors, etc.). Turn the wheel by hand and check clearance on the inside of the hub. The wheel should rotate freely. (Maximum tolerance for some vehicles is only 2mm -- i.e. Rear Axle Mercedes).

4 For these applications, because of differences in axle cap lengths on the front axle, our wheel spacers can only be used if the center contour is machined out. Because the centering stub can become thin walled, we do not produce this contour. Our systems are usable beginning at 40 mm.

8 If the depth of the wheel spacer is smaller than the length of the standard studs, the wheels used must allow for small cavities in the mounting pad of the wheel. If using wheels without cavities, the standard studs should be shortened so that they do not extend beyond the height of the spacer.

9 For vehicles from Audi type '89,B4 and C4/S4 with a disc brake at axle to the centering stud might be too long for the 15mm DR System. In that case, type '89 +B4 Part. No. 40234572 (4-hole) and for C4/S6 Part. No. 4055571 (5-hole) must be used.

11 It may be necessary to remove the brake disc/drum retaining screw from the mounting surface. The wheel spacer must always sit flush on the hub.

12 These vehicles have different shoulder diameters in the studs depending on model and axle. The DRS installation information must be carefully followed. If exchange of the studs is required, please call us at 1-888-827-8881.

13 The front hub height may be too tall to allow the wheel spacer to seat properly on the hub. In this case no spacers can be used.

14 When using 25 mm wheel spacers in conjunction with standard wheels, the standard bolts will be too long. They must be shortened by 5 mm or replaced with a new bolt, part number 1452802. In this instance, a 17 mm lug wrench must be added to your vehicle toolbox.

15 Depending on model, axle and year, Nissan vehicles have different diameters in the shoulder of the studs. The following list provides notes and measurements of the shoulder studs required for installation. The wheel spacers shown in the catalog will be supplied with shoulder bolts d = 14.25. If you need d = 12.85, please add a "1" at the end of the part number.

DRS Wheel Spacers - Nissan

DRS wheel spacers / required DRS shoulder

Vehicle	Model	Shoulder	Front Axle/Shoulder	Rear Axle
SENTRA	B13	GA 16 + SR20 DE	large 14.25mm	large 14.25 mm
100	NX	B13 GA 16 + SR 20 DE	large 14.25 mm	large 14.25 mm
200 SX	S13	CA18 T	small 12.85 mm	small 12.85 mm
200 SX	S14	SR 20 DET	large 14.25 mm	small 12.85 mm
300 ZX	Z32	VG 30 DTT	large 14.25 mm	small 12.85 mm
MAXIMA	J30	up to 10/91	small 12.85mm	small 12.85 mm
		up to 12/94	large 14.25 mm	small 12.85 mm
		from 01/95	large 14.25 mm	large 14.25 mm
MAXIMA	A32	VQ 20 + 30DE	large 14.25 mm	large 14.25 mm

TRAK+® WHEEL SPACER NOTES

17 Depending on model, axle and year, Mazda vehicles have different diameters in the shoulder of the studs. Please see the following list for the measurements of the studs required for installation. The wheel spacers shown in the catalog will be supplied with shoulder bolts d=13.00. If you need d=14.85, please add a "1" at the end of the part number.

DRS Wheel Spacers - Mazda

DRS wheel spacers / required DRS shoulder

Vehicle	Model	Shoulder Front Axle	Shoulder Rear Axle
323	BG	small 3.00 mm up to chas. no. 753743	small 13.00 mm up to chas. no. 773461
323	BG	large 14.85 mm from chas. no. 753744	large 14.85 mm from chas. no. 773462
323	GT/GTR	small 13.00 mm	large 14.85 mm
323	BA/BJ	large 14.85 mm	small 13.00 mm
626	GE/GEA	small 14.85 mm	small 13.00 mm
626	GF/GV/GW	small 14.85 mm	large 13.00 mm
MX 3	EC	large 14.25 mm	small 13.00 mm
MX 5	NA	small 13.00 mm	small 13.00 mm up to chas. no. 133232 large 14.85 mm
MX 5	NB	small 13.00 mm	large 14.85 mm
MX 6	GE6	small 13.00 mm up to chas. no. 101861 large 14.85 mm	small 13.00 mm up to chas. no. 101861 small 14.85 mm

*Information is subject to change without prior notice.

18 Careful attention must be paid to the vehicle hub height and inner wheel bevel measurements. Failure to follow the measurement guidelines below can result in serious damage to wheel spacers, wheels, and mounting hardware.

Vehicle	System Widening Per Side	Part Num.	Maximum Hub Height	Inner Wheel Bevel
ALFA ROMEO	DR / 10	20135580	10.50mm	N/A
ASTON MARTIN	DR / 11	2265681CR	20.00mm	N/A
ASTON MARTIN	DR / 11	2265681SW	20.00mm	N/A
AUDI	DR / 10	2055668	13.50mm	5.0 x 45 degrees
AUDI	DR / 12	2455668	13.50mm	4.0 x 45 degrees
AUDI	DR / 15	3055668	17.00mm	4.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 8	162345712	14.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 8	162555716	14.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 8	1655572	14.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	202345714	16.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	20255571	16.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	202555712A	16.00mm	7.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	202555712B	14.00mm	5.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	2055571A	15.50mm	6.5 x 45 degrees
AUDI / VOLKSWAGEN	DR / 10	2055571B	12.00mm	4.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 12	24255571	15.00mm	5.0 x 45 degrees
AUDI / VOLKSWAGEN	DR / 12	2455571	15.00mm	5.0 x 45 degrees
BMW	DR / 10	2075725	12.00mm	N/A
BMW	DR / 10	2075726	12.00mm	N/A
BMW	DR / 10	2075740	11.00mm	N/A
BMW	DR / 11	2255664	11.00mm	N/A
BMW	DR / 12	2475725	12.00mm	N/A
BMW	DR / 12	2475726	12.00mm	N/A
BMW	DR / 12	2475740	12.00mm	N/A
BMW	DR / 12	2455664	10.00mm	N/A
BMW	DR / 13	2655664	12.50mm	N/A
BMW	DR / 15	3055664	12.50mm	N/A
CHRYSLER / DODGE	DR / 10	2055665	9.00mm	N/A
CHRYSLER / DODGE	DR / 12	2455665	10.00mm	N/A
FORD	DRS / 10	20346331	11.00mm	N/A
FORD	DRS / 12	2465635	11.00mm	N/A
HONDA	DRS / 10	2065640	11.00mm	N/A
HONDA	DRS / 10	2065700	11.00mm	N/A
HONDA / ACURA	DRS / 10	20245616	10.00mm	N/A
HONDA / ACURA	DRS / 10	2064640	11.00mm	N/A
MAZDA	DRS / 10	20245410	11.00mm	N/A
MAZDA	DRS / 10	202454101	11.00mm	N/A
MERCEDES-BENZ	DR / 10	2055665	9.00mm	N/A
MERCEDES-BENZ	DR / 10	20556659	N/A	N/A
MERCEDES-BENZ	DR / 12	2455665	10.00mm	90 degree
MERCEDES-BENZ	DR / 12	24556659	N/A	N/A
MINI	DR / 10	2075725	12.00mm	N/A
MINI	DR / 12	2475725	12.00mm	N/A
NISSAN	DRS / 10	2064662	10.00mm	2.0 x 45 degrees
NISSAN	DRS / 10	2065662	10.00mm	2.0 x 45 degrees
SUZUKI	DR / 10	20365601	11.00mm	2.0 x 45 degrees
TOYOTA	DRS / 10	20245414	11.00mm	2.0 x 45 degrees
TOYOTA	DRS / 10	2025541	10.00mm	2.0 x 45 degrees
TOYOTA	DRS / 10	20656014	11.00mm	2.0 x 45 degrees
VOLVO	DR / 10	2035650	11.00mm	2.0 x 45 degrees
VOLVO	DR / 12	2435650	10.00mm	2.0 x 45 degrees

19 When using our 20mm, 25mm, and 30mm DRA wheel spacers, the DRA bolts on the rear axle may be too long—depending on the brake system. In this case, they must be shortened by 3 mm or exchanged with part number 1252201.

21 When using our 25 mm and 30 mm wheel spacers for vehicles with sliding doors, be sure to check the clearance of the fitting.

24 If the hub face of your vehicle is 150mm (most vehicles have 135mm hub face), alternative spacers are available. Please see list below.

DR = 8mm 162555719
DR = 12mm 242555713
DR = 15mm 302555716
DR = 20mm 402555716
DRA = 20mm 4025572
DRA = 25mm 50255712
DRA = 30mm 60255712

26 Pay close attention to fastener engagement. Make sure fastener has enough turns for the specific application see Note 3. Safety guidelines.

28 These are hub-centric flat disc type spacers which require the factory hub to center the wheels. Please measure the vehicle hub to verify sufficient height will remain to center the wheel after spacer installation.

30 The OE wheel bolt must have a fully threaded shank and must be shorter than the thickness of the spacer to avoid interference with the hub face.

39 These spacers mount with the included shank nuts. Please make sure the length of the original stud is sufficient to meet the minimum thread engagement specifications as outlined in tech note '3'.

40 Requires the use of a wheel bolt with a fully threaded shank. If your OE wheel bolt is not threaded the entire length of the shank you will need to purchase wheel bolt part number 1454302 for proper installation.

H&R SPECIAL SPRINGS makes every effort to ensure that you are provided with the most accurate and up-to-date information. However, all technical information is approximate and may vary upon application. Additional suspension components may be needed in some applications, depending upon the make, model, engine and chassis of the vehicle. H&R is not responsible for typographical errors, or any consequences resulting from manufacturer's technical mid-year changes. Please contact (888) 827-8881 with any questions. Prices subject to change without notice.

* All vehicle lowering numbers are approximate and may vary based on individual vehicle factors.