

## Measure the rail height wear with SAHL 1

Depending on the height wear of the rail, the DSS sensor must be fastened to the rail stem (web) using its upper or lower fastening holes.

- Insert the sliding calliper SAHL 1 into the DSS fastening hole and snug it with the wing nut.

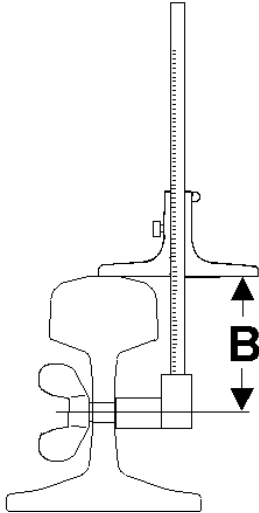


Fig. 1 Measure the height wear using the SAHL 1

- Loosen the knurled screw, press the movable part of the sliding calliper onto the rail head and tighten the knurled screw again (if necessary, remove any dirt from the rail head).
- Cautiously lift the SAHL 1 off the rail, read the measured value **-B-** and compare it with the Table 1.
- As an alternative (and due to potential hole tolerances), it is also possible to measure the entire rail height **-X-**, which allows to assess the difference with respect to a new rail.

For 141 lb rail you will need to add an additional 10mm flat spacer underneath the wheel sensor if you will be bolting it to the SSK6 mounting plate. This will raise the wheel sensor to the correct height so you can attain the necessary 45mm from the top of the rail to the top of the wheel sensor

Table 1: Overview of the mounting dimensions for the DSS sensor

1	2	3		4	5		6	7			8
Identify	Read	Adapt		Measure	Remeasure		Determine	Add			Remeasure
Rail profile	Height	BVR17	LD-1P	Height Actual dim.	SBKL1	SAHL1	DSS mounting position	Spacer plates, also see <b>Error!</b> Reference source not found.			SAHL2
New rail	H [mm]	Stop triangles [mm]	Base plate + jaw profiles	X [mm]	C [mm]	B [mm]		MP A	MP B	[mm]	Y [mm]
USA / CANADA	ASCE 60	107.95	41.46	> 99.95 ≤ 99.95	61.46	> 79 ≤ 79	bottom holes top holes				> 37 ≤ 37
	ASCE 75	122.24	36.44	> 114.24 ≤ 114.24	56.44	> 79 ≤ 79	bottom holes top holes				> 37 ≤ 37
	ASCE 80	127.00	34.51	> 119 ≤ 119	54.51	> 79 ≤ 79	bottom holes top holes			without not possible	> 37 ≤ 37
	ARA A 90	142.88	35.85	> 134.88 ≤ 134.88	55.85	> 79 ≤ 79	bottom holes top holes			without not possible	> 37 ≤ 37
	ARA B 100	143.27	29.39	> 135.27 ≤ 135.27	49.39	> 79 ≤ 79	bottom holes top holes			not possible	> 37 ≤ 37
	ASCE 100	146.00	29.39	> 138 ≤ 138	49.39	> 79 ≤ 79	bottom holes top holes			not possible	> 37 ≤ 37
	AREA 100 = 100RE	152.40	31.10	> 144.4 ≤ 144.4	51.10	> 79 ≤ 79	bottom holes top holes		blue	1.5 not possible	> 37 ≤ 37
USA / CANADA	AREA 112 = 112RE	168.28	30.40	> 160.3 ≤ 160.3	50.40	> 79 ≤ 79	bottom holes top holes			without without	> 37 ≤ 37
	AREA 115 = 115RE	168.28	30.50	> 160.3 ≤ 160.3	50.50	> 79 ≤ 79	bottom holes top holes			without without	> 37 ≤ 37
	AREA 119 = 119RE	173.00	25.73	> 165 ≤ 165	45.73	> 79 ≤ 79	bottom holes top holes		red	1.0 without	> 37 ≤ 37
	CB 122	172.21	27.57	> 164.21 ≤ 164.21	47.57	> 79 ≤ 79	bottom holes top holes			without	> 37 ≤ 37
	AREA 132 = 132RE	180.98	29.01	> 173 ≤ 173	49.01	> 79 ≤ 79	bottom holes top holes		green	3.6 0	> 37 ≤ 37
	AREA 133 = 133RE	179.39	26.70	> 171.4 ≤ 171.4	46.70	> 79 ≤ 79	bottom holes top holes		green	3.6	> 37 ≤ 37
	AREA 136 = 136RE	185.70	24.34	> 177.7 ≤ 177.7	44.34	> 79 ≤ 79	bottom holes top holes	grey	red blue	1.2+4.3=5.5 1.5	> 37 ≤ 37
	AREA 140 = 140RE	185.70	23.80	> 177.7 ≤ 177.7	43.80	> 79 ≤ 79	bottom holes top holes	red	red brown	1.0+4.3=5.3 2	> 37 ≤ 37
AREA 141 = 141RE	188.90	21.16	> 180.9 ≤ 180.9	41.16	> 79 ≤ 79	bottom holes top holes	red	red white	1.0+4.3=5.3 4.3	> 37 ≤ 37	

# SAHL 1

Part-No.: 038828

