



TECHNICAL BULLETIN

Issued by ROBERT BOSCH (AUSTRALIA) PTY. LTD.
A.C.N. 004 315 628 Incorporated in Victoria

File: DISM
Section: K - NHA
Bulletin No. 0001
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Subject: Testing and repair ban for 2-Spring NHA (2-S-NHA) and Stepped NHA(STH)

BOSCH developed the 2-S-NHA and the STH to further enhance the noise and emission levels of modern Diesel engines.

Increasing injection pressures and design constraints mean that it is no longer possible to repair and test such nozzle-holder assemblies.

Reasons:

- * The second opening pressure of the 2-S-NHA cannot be checked and adjusted.
- * Nozzle-holder assemblies with needle motion sensors (NBF) can not be repaired.
- * Use is made of the so-called 'Stepped Nozzle' on account of the high pressures at the nozzle. The 'Stepped Nozzle' has a chamfered shoulder which gives the nozzle retaining nut a greater contact surface. As a result, the nozzle can no longer be centred at the workshop, as this could lead to nozzle damage and possibly engine problems.
- * Due to very high injection pressures of up to 1800 bar (as used in the PLD unit pump), there is a greater danger of cavitation in the NHA which cannot be detected without special equipment. This can weaken or fracture the structure of the NHA during operation.

BOSCH currently does not permit dismantling and/or nozzle replacement for the above-mentioned nozzle-holder assemblies.

SUCH NHAs MUST BE REPLACED AS AN ASSEMBLY.

This does not affect the conventional 1-spring NHA which can still be repaired as part of a service.

The assignment of nozzles/nozzle holders to NHA's (nozzle + holder) will be supplied and updated in ESI future editions.

Check with your supplier on the availability of the nozzle as it is possible that circumstances may have changed for a particular application.



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Nozzle Part Number	Nozzle Type Number	Stamping on Nozzle Stem	Nozzle Holder Type Number	Nozzle & Nozzle Holder Assembly No.	With NFB	Engine Manufacturer	Opening pressure
0 433 171 289	DLLA 142 P 406	406	KDEL 97 P 31	0 432 131 807		SCANIA	300 bar
0 433 171 448	DLLA 145 P 593	593	KDEL 97 P 56	0 432 131 692		SCANIA	290 bar
0 433 171 448	DLLA 145 P 593	593	KDEL 97 P 31	0 432 131 745		SCANIA	290 bar
0 433 171 451	DLLA 149 P 601	601	KDEL 97 P 53	0 432 131 744		SCANIA	290 bar
0 433 171 456	DLLA 145 P 609	609	KDEL 97 P 56	0 432 131 691		SCANIA	290 bar
0 433 171 456	DLLA 145 P 609	609	KDEL 97 P 31	0 432 131 738		SCANIA	290 bar
0 433 171 466	DLLA 145 P 627	627	KDEL 97 P 56	0 432 131 724		SCANIA	290 bar
0 433 171 473	DLLA 159 P 638	638	KBEL 100 P 166	0 432 191 554		MB-NFZ	--
0 433 171 473	DLLA 159 P 638	638	KBEL 100 P 150	0 432 191 587		MB-NFZ	--
0 433 171 536	DLLA 145 P 748	748	KBAL 140 P 75	0 432 191 527	X	BMW	--
0 433 171 536	DLLA 145 P 748	748	KBAL 140 P 74	0 432 191 528		BMW	--
0 433 171 560	DLLA 145 P 818	818	KBAL 140 P 90	0 432 191 496	X	BMW	--
0 433 171 560	DLLA 145 P 818	818	KBAL 140 P 89	0 432 191 497		BMW	--
0 433 171 563	DLLA 144 P 825	825	KBEL 101 P 186	0 432 191 494	X	SCANIA	--
0 433 171 563	DLLA 144 P 825	825	KBEL 101 P 185	0 432 191 495		SCANIA	--
0 433 171 565	DLLA 147 P 827	827	KDEL 97 P 56	0 432 131 684		SCANIA	290 bar
0 433 171 567	DLLA 149 P 831	831	KDEL 75 P 65	0 432 131 683		RENAULT	--
0 433 175 013	DSLA 150 P 191+/	191+/	KBEL 53 P 43	0 432 193 877		VW	180 bar
0 433 175 013	DSLA 150 P 191+/	191+/	KBEL 53 P 43	0 432 193 878		VW	180 bar
0 433 175 013	DSLA 150 P 191+/	191+/	KBEL 53 P 47	0 432 193 880	X	VW	180 bar
0 433 175 013	DSLA 150 P 191+/	191+/	KBEL 53 P 47	0 432 193 881	X	VW	180 bar
0 433 175 017	DSLA 145 P 208	208	KBEL 98 P 52	0 432 193 879		ROVER	200 bar
0 433 175 029	DSLA 150 P 261	261	KBEL 68 P 67	0 432 193 866		PERKINS	200 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 58 P 119	0 432 193 785		AUDI	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 58 P 120	0 432 193 787	X	AUDI	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 58 P 120	0 432 193 808	X	AUDI	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 58 P 119	0 432 193 809		AUDI	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 53 P 72	0 432 193 856	X	VW	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 53 P 72	0 432 193 857	X	VW	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 53 P 71	0 432 193 858		VW	190 bar
0 433 175 042	DSLA 150 P 280-	280-	KBEL 53 P 71	0 432 193 859		VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 134	0 432 193 776	X	VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 133	0 432 193 777		VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 134	0 432 193 782	X	VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 133	0 432 193 783		VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 94	0 432 193 829	X	VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 94	0 432 193 830	X	VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 88	0 432 193 837	X	VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 87	0 432 193 838		VW	190 bar
0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 88	0 432 193 839	X	VW/AUDI	190 bar

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0 433 175 058	DSLA 150 P 357	357	KBEL 58 P 87	0 432 193 840		VW	190 bar
0 433 175 059	DSLA 150 P 362	362	KDEL 65 P 26	0 432 193 869		FIAT	200 bar
0 433 175 060	DSLA 145 P 365	365	KBAL 90 P 38	0 432 193 834	X	ROVER	200 bar
0 433 175 060	DSLA 145 P 365	365	KBAL 90 P 36	0 432 193 836		ROVER	200 bar
0 433 175 061	DSLA 145 P 366	366	KBAL 90 P 37	0 432 193 631		MAXION	--
0 433 175 061	DSLA 145 P 366	366	KBAL 90 P 37	0 432 193 835		ROVER	200 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 189	0 432 193 622	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 144	0 432 193 732		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 144	0 432 193 733		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 142	0 432 193 734	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 142	0 432 193 735	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 143	0 432 193 740	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 143	0 432 193 741	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 145	0 432 193 742		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 145	0 432 193 743		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 87	0 432 193 794		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 94	0 432 193 795	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 94	0 432 193 810	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 87	0 432 193 811		VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 107	0 432 193 821	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 107	0 432 193 822	X	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 119	0 432 193 823	VW	VW	190 bar
0 433 175 072	DSLA 150 P 442	442	KBEL 58 P 119	0 432 193 824		VW	190 bar
0 433 175 073	DSLA 145 P 446	446	KBAL 70 P 46	0 432 193 819		ROVER	200 bar
0 433 175 073	DSLA 145 P 446	446	KBAL 70 P 45	0 432 193 820	X	ROVER	200 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 131	0 432 193 771	X	VW	190 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 131	0 432 193 784	X	VW	190 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 119	0 432 193 786		AUDI	190 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 120	0 432 193 788	X	AUDI	190 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 120	0 432 193 806	X	AUDI	190 bar
0 433 175 087	DSLA 150 P 502	502	KBEL 58 P 119	0 432 193 807		AUDI	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 143	0 432 193 736	X	VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 143	0 432 193 737	X	VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 145	0 432 193 738		VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 145	0 432 193 739		VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 142	0 432 193 744	X	VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 142	0 432 193 745	X	VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 144	0 432 193 746		VW	190 bar
0 433 175 093	DSLA 150 P 520	520	KBEL 58 P 144	0 432 193 747		VW	190 bar
0 433 175 095	DSLA 147 P 535	1 Marking-ring	KBAL 40 P 79	0 432 193 686		OPEL	--

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0 433 175 095	DSLA 147 P 535	1 Marking-ring	KBAL 40 P 54	0 432 193 797		OPEL	--
0 433 175 107	DSLA 148 P 575	575	KBAL 90 P 37	0 432 193 766		MAXION	200 bar
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 88	0 432 193 637	X	MB-PKW	--
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 88	0 432 193 638	X	MB-PKW	--
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 87	0 432 193 639		MB-PKW	--
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 87	0 432 193 640		MB-PKW	--
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 64	0 432 193 758		MB-PKW	190 bar
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 59	0 432 193 768	X	MB-PKW	190 bar
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 59	0 432 193 769	X	MB-PKW	190 bar
0 433 175 110	DSLA 148 P 591	591	KBAL 78 P 64	0 432 103 790		MB-PKW	190 bar
0 433 175 116	DSLA 155 P 617	617	KBEL 68 P 67	0 432 193 755		PERKINS	220 bar
0 433 175 117	DSLA 145 P 619	619	KBEL 58 P 147	0 432 193 753		RENAULT	200/300 bar
0 433 175 117	DSLA 145 P 619	619	KBEL 58 P 146	0 432 193 754	X	RENAULT	200/300 bar
0 433 175 121	DSLA 146 P 631	631	KBAL 85 P 63	0 432 193 731		MWM	--
0 433 175 124	DSLA 140 P 640	640	KBEL 68 P 152	0 432 193 728		PSA	--
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 190	0 432 193 617	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 190	0 432 193 618	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 158	0 432 193 714	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 158	0 432 193 715	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 157	0 432 193 716		VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 157	0 432 193 717		VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 107	0 432 193 718	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 107	0 432 193 719	X	VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 119	0 432 193 720		VW	190 bar
0 433 175 131	DSLA 150 P 646	646	KBEL 58 P 119	0 432 193 721		VW	190 bar
0 433 175 136	DSLA 150 P 661	661	KBEL 58 P 94	0 432 193 707	X	VW	190 bar
0 433 175 136	DSLA 150 P 661	661	KBEL 58 P 94	0 432 193 708	X	VW	190 bar
0 433 175 136	DSLA 150 P 661	661	KBEL 58 P 87	0 432 193 709		VW	190 bar
0 433 175 136	DSLA 150 P 661	661	KBEL 58 P 87	0 432 193 710		VW	190 bar
0 433 175 139	DSLA 150 P 672	672	KBEL 58 P 144	0 432 193 702		VW	220 bar
0 433 175 139	DSLA 150 P 672	672	KBEL 58 P 144	0 432 193 703		VW	220 bar
0 433 175 139	DSLA 150 P 672	672	KBEL 58 P 142	0 432 193 704	X	VW	220 bar
0 433 175 139	DSLA 150 P 672	672	KBEL 58 P 142	0 432 193 705	X	VW	220 bar
0 433 175 141	DSLA 145 P 682	682	KBAL 70 P 70	0 432 193 700	X	ROVER	--
0 433 175 141	DSLA 145 P 682	682	KBAL 70 P 69	0 432 193 701		ROVER	--
0 433 175 142	DSLA 142 P 683	683	KDAL 57 P 24	0 432 193 833	X	AUDI	--
0 433 175 142	DSLA 142 P 683	683	KDAL 57 P 24	0 432 193 834	X	AUDI	--
0 433 175 142	DSLA 142 P 683	683	KDAL 57 P 23	0 432 193 835		AUDI	--
0 433 175 142	DSLA 142 P 683	683	KDAL 57 P 23	0 432 193 836		AUDI	--
0 433 175 149	DSLA 145 P 704	704	KBAL 140 P 75	0 432 193 692	X	BMW	--

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0 433 175 149	DSLA 145 P 704	704	KBAL 140 P 74	0 432 193 697		BMW	--
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 189	0 432 193 619	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 189	0 432 193 620	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 107	0 432 193 660	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 107	0 432 193 661	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 119	0 432 193 662		VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 119	0 432 193 663		VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 142	0 432 193 693	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 142	0 432 193 694	X	VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 144	0 432 193 695		VW	220 bar
0 433 175 150	DSLA 150 P 706	706	KBEL 58 P 144	0 432 193 696		VW	220 bar
0 433 175 152	DSLA 139 P 710	710	KBAL 85 P 63	0 432 193 691		MWM	--
0 433 175 153	DSLA 145 P 712	712	KBAL 72 P 76	0 432 193 690		VOLVO PENTA	--
0 433 175 154	DSLA 140 P 713	713	KBAL 75 P 92	0 432 193 632	X	VOLVO PENTA	--
0 433 175 154	DSLA 140 P 713	713	KBAL 75 P 77	0 432 193 689		VOLVO PENTA	--
0 433 175 155	DSLA 147 P 715	3 Marking-rings	KBAL 40 P 79	0 432 193 688		OPEL	--
0 433 175 156	DSLA 147 P 716	2 Marking-rings	KBAL 40 P 79	0 432 193 687		OPEL	--
0 433 175 168	DSLA 150 P 745	745	KBEL 58 P 171	0 432 193 680	X	VW	190 bar
0 433 175 168	DSLA 150 P 745	745	KBEL 58 P 171	0 432 193 681	X	VW	190 bar
0 433 175 168	DSLA 150 P 745	745	KBEL 58 P 170	0 432 193 682		VW	190 bar
0 433 175 168	DSLA 150 P 745	745	KBEL 58 P 170	0 432 193 683		VW	190 bar
0 433 175 169	DSLA 140 P 746	746 U.H. DA	KBAL 85 P 82	0 432 193 679		HYUNDAI	--
0 433 175 176	DSLA 150 P 764	764	KBEL 58 P 107	0 432 193 667	X	VW	220 bar
0 433 175 176	DSLA 150 P 764	764	KBEL 58 P 107	0 432 193 668	X	VW	220 bar
0 433 175 176	DSLA 150 P 764	764	KBEL 58 P 119	0 432 183 669		VW	220 bar
0 433 175 176	DSLA 150 P 764	764	KBEL 58 P 119	0 432 193 670		VW	220 bar
0 433 175 178	DSLA 142 P 770	770	KDAL 53 P 30	0 432 193 822	X	AUDI	--
0 433 175 178	DSLA 142 P 770	770	KDAL 53 P 30	0 432 193 823	X	AUDI	--
0 433 175 178	DSLA 142 P 770	770	KDAL 53 P 29	0 432 193 824		AUDI	--
0 433 175 178	DSLA 142 P 770	770	KDAL 53 P 29	0 432 193 825		AUDI	--
0 433 175 179	DSLA 134 P 772	772	KBEL 110 P 176	0 432 193 666		IVECO	--
0 433 175 190	DSLA 150 P 784	784	KBAL 93 P 85	0 432 193 655		KIA	--
0 433 175 195	DSLA 147 P 794	2 Marking-rings	KBAL 40 P 79	0 432 193 650		OPEL	--
0 433 175 206	DSLA 145 P 808	808	KBEL 58 P 182	0 432 193 643		RENAULT	200/380 bar
0 433 175 206	DSLA 145 P 808	808	KBEL 58 P 183	0 432 193 644	X	RENAULT	200/380 bar
0 433 175 209	DSLA 158 P 817	817	KBAL 70 P 93	0 432 193 636		BMC	--
0 433 175 213	DSLA 147 P 823	4 Marking rings	KBAL 40 P 91	0 432 193 634		OPEL	--
0 433 175 214	DSLA 149 P 824	3 Marking rings	KBAL 40 P 91	0 432 193 633		OPEL	--

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0 433 175 217	DSLA 145 P 835	835	KBAL 115 P 96	0 432 193 627	X	VM	--
0 433 175 217	DSLA 145 P 835	835	KBAL 115 P 95	0 432 193 628		VM	--
0 433 175 218	DSLA 148 P 837	837	KBAL 78 P 88	0 432 193 623	X	MB-PKW	--
0 433 175 218	DSLA 148 P 837	837	KBAL 78 P 88	0 432 193 624	X	MB-PKW	--
0 433 175 218	DSLA 148 P 837	837	KBAL 78 P 87	0 432 193 625		MB-PKW HAN	--
0 433 175 218	DSLA 148 P 837	837	KBAL 78 P 87	0 432 193 626		MB-PKW	--
0 433 175 219	DSLA 93 P 838	838	KBEL 59 P 192	0 432 193 613	X	VW	--
0 433 175 219	DSLA 93 P 838	838	KBEL 59 P 192	0 432 193 614	X	VW	--
0 433 175 219	DSLA 93 P 838	838	KBEL 59 P 191	0 432 193 615		VW	--
0 433 175 219	DSLA 93 P 838	838	KBEL 59 P 191	0 432 193 616		VW	--
0 434 250 169	DN 0 SD 308	-	KCA 27 S 77	0 432 217 243		VAG / Seat / VA	150 bar
0 434 250 169	DN 0 SD 308	-	KCA 27 S 77	0 432 217 244		VAG / Seat / VA	150 bar
0 434 250 169	DN 0 SD 308	-	KCA 27 S 77 /	0 432 217 283		VAG / Seat / VA	150 bar
0 434 250 169	DN 0 SD 308	-	KCA 27 S 77 /	0 432 217 284		VAG / Seat / VA	150 bar