

**List of radar navigation equipment approved  
in accordance with the Rhine Vessel Inspection Regulations**

**Radar equipment which was approved according to the rules adopted by Resolution 1969-II-18**

The installation of the following radar navigation equipment, which was approved **according to the rules adopted by Resolution 1969-II-18** before 1 January 1990 will be prohibited as from 1 January 2000.  
They may however remain installed and be operated until the renewal of the vessel certificate after 31 December 2009 and 31 December 2011 at the latest, if a valid installation certificate (1989-II-35) has been issued.

Nr.	Type	Manufacturer	Owner of the type approval	Date of approval	Competent authority	Approval No
A 1.1	17/12 R-B 17/12 RB-HL	Kelvin Hughes, London	Elna, Rellingen, D	25.8.1970 11.4.1979	D	403 15
A 1.2	KH 17/12 R-B KH 17/12 R-BM	Kelvin Hughes			NL	B 127/251
A 1.3	17/12 GR mod. 79 17/12 GR mod. 79-2, 3 m 17/12 GR mod. 79 – 3 m	Kelvin Hughes	Elna, Rellingen, D	6.2.1979	D	403 12
A 2.1	RR 1216 RR 1219	Decca, London	Debeg, Hamburg, D	15.12.1970	D	403 16
A 2.2	RR 1216 RR 1219	Decca			NL	B 121
A 2.3	RR 1216 A RR 1219 A	Decca			NL	B 121 A
A 2.4	RR 1216 A RR 1219 A	Decca	Debeg, Hamburg, D	9.11.1977	D	403 23
A 2.5	T 217 Zb mod. 78	Decca	Debeg, Hamburg, D	1.2.1979	D	403 10
A 2.6	RR 1250	Racal Decca Marine Radar, London	Internationale Navigatie Apparaten, Rotterdam, NL	10.1982/1987	NL	KSR 402 300
A 2.7	RR 1250	Racal Decca	Debeg GmbH, Hamburg, D	17.1.1983	D	403 29

Nr.	Type	Manufacturer	Owner of the type approval	Date of approval	Competent authority	Approval No
A 2.8	RR 2050 MT	Racal Decca	Internationale Navigatie Apparaten B.V., Rotterdam, NL	6.9.1989	NL	KSR 416 000
A 2.9	RR 2050 MT	Racal Decca	Internationale Navigatie Apparaten B.V., Rotterdam, NL	10.1989	NL	KSR 4160 AO
A 2.10	RR 2050 MT	Racal Decca	DMT Hamburg, D	13.11.1989	D	A400 795 X OX
A 3.1	Astaron 306 R 308 R	Astaron-Bird Ltd, Poole (England)		13.12.1971	NL	KN 563 A/B
A 3.2	Astaron 306 R 308 R	Astaron	Matronik, Duisburg, D	14.3.1972	D	403 19
A 4.1	Tesla RR5 (RR 517, RR 518)	Tesla Pardubice n.p., Opocinek (Tschechoslo- wakei)	Strojexport, Hamburg, D	19.10.1971	D	403 17
A 4.2	RR 517 RR 518	Tesla			NL	KN 642
A 4.3	Tesla RR5 (RR 527, RR 528)	Tesla			NL	KN 642
A 5.1	Astaron 126 R Astaron 128 R	Astaron-Bird Ltd, Poole (England)	Becker, Zeist, NL	16.11.1973	NL	KN 563 C
A 6.1	Pilot 9 T 12/12 R	Terma, Aarhus	Schiffselektronik, S. Müller, Duisburg, D	11.2.1972	D	403 18
A 6.2	9 T 12/12-R	Terma			NL	B 193 A/B
A 7.1	MK-1217 R	Terma	Sperry Rand GmbH, Frankfurt/Main, D	28.1.1975	D	403 20
A 7.2	MK-1217 R	Terma	Sperry		NL	KN 673
A 8.1	JFS 32 R	Sturtzel und Co, Rotkreuz (CH)	Marine Elektronik, Bremen, D	6.4.1977	D	403 21
A 8.2	JFS 32 R	JFS Electronic Swiss Radar			NL	KN 778

Nr.	Type	Manufacturer	Owner of the type approval	Date of approval	Competent authority	Approval No
A 8.3	JFS 32 R-S	Sturtzel und Co	Marine Elektronik, Bremen, D	26.6.1985	D	403 33
A 8.4	JFS 32 R-S	Sturtzel und Co	Radio Zeeland Terneuzen, NL	8.1985	NL	KSR 410 700
A 9.1	UME OKI NX - 1218	OKI, Tokyo	W. Schlichting K.G., Münster, D	27.10.1977	D	403 22
A 9.2	NX - 1218	OKI			NL	KN 740/B
A 9.3	NX – 1218 A	OKI			NL	KN 740 A/B
A 10.1	JMA 605 E <sup>1</sup>	Japan Radio Co Ltd (JRC)	Radio Holland, NL	2.1983/1988	NL	KSR 4007 EO
A 10.2	JMA 605 EM <sup>1</sup>	JRC	Radio Holland, NL	2.1983/1988	NL	KSR 4007 FO
A 10.3	Elna 3000 E	JRC	Elna, Rellingen, D	5.12.1979	D	403 24
A 10.4	Elna 3100 E	JRC	Elna, Rellingen, D	7.10.1981	D	403 27
A 10.5	JMA 606 E <sup>1</sup>	JRC	Radio Holland, NL	2.1983/1988	NL	KSR 4001 AO
A 10.6	JMA 606 EA	JRC	Radio Holland, NL	13.1984/1989	NL	KSR 4001 BO
A 10.7	JMA 606 EA	JRC	Engel u. Meier, St. Goar, D	13.7.1988	D	A400 282 W OX
A 10.8	Elna 3100 EA	JRC	Elna Rellingen, D	9.5.1985	D	403 32
A 10.9	JMA 606 EA/16	JRC	Radio Holland, NL	11.1985	NL	KSR 4001 CO
A 10.10	JMA 607	JRC	Radio Holland B.V. Rotterdam, NL	8.9.1989	NL	KSR 415 800
A 10.11	JMA 607	JRC	Engel u. Meier, St. Goar, D	9.11.1989	D	A400 793 X OX
A 10.12	JMA 606 EAL	JRC		6.1987	NL	KSR 4001 DO
A 11.1	RR 1225/6 XR RR 1225/9 XR	Raytheon Marine Comp., Manchester USA	Hagenuk GmbH Hamburg, D	10.9.1980	D	403 25

<sup>1</sup> The installation of JMA 605, JMA 605 M and JMA 606 type equipment has been prohibited since 14 April 1983; equipment operated at this date had to be adapted to conform to the JMA 605 E, JMA 605 EM and JMA 606 E types respectively at the latest by 15 August 1983.

Nr.	Type	Manufacturer	Owner of the type approval	Date of approval	Competent authority	Approval No
A 12.1	MK 2217 R	Sperry Marine Systems, England	Sperry Marine Systems, Vlaardingen, NL	11.7.1980	NL	KN 932
A 12.2	MK 2217 R	Sperry	Sperry Marine Systems, Hamburg, D	22.10.1980	D	403 26
A 12.3	MK 3217 R	Sperry	Sperry Marine Systems, Vlaardingen, NL	2.1983/1988	NL	KSR 404 600
A 12.4	MK 3217 R	Sperry	Sperry Marine Systems, Hamburg, D	23.6.1983	D	40 331
A 13.1	FR-1201	Furuno, Japan	Ferropilot, Rellingen, D	6.4.1983	D	40 328
A 13.2	FR-1201	Furuno	Elna, Rellingen, D	13.4.1983	D	40 330
A 13.3	FR-1201	Furuno	Venteville B.V., Rotterdam, NL	10.1982/1987	NL	KSR 402 800
A 13.4	RHRS 2001 R	Furuno	Radio Holland B.V., Rotterdam, NL	11.1988	NL	KSR 416 300
A 13.5	RHRS 2001 R	Furuno	Engel u. Meier, St. Goar, D	13.11.1989	D	A400 801 X OX
A 13.6	Elna 3200	Furuno	Elna, Hamburg, D	31.10.1989	D	A400 783 X OX
A 14.1	BX-3532 R	GEM Elettronica, Italien		3.1986	NL	KSR 411 000
A 14.2	BX-3532 R	GEM Elettronica	Leertrouwer, Utrecht, NL	26.9.1988	D	A400 402 W OX

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