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**EUROPEAN FEDERATION OF RADIO OPERATED MODEL AUTOMOBILES**

Sander de Graaf, Beekmansbos 53, 1971 BX IJmuiden, Netherlands

**MUFFLERS UPDATED 2012 with INS BOXES.**

IJmuiden, March 1st 2012.

Dear Sportfriend,

Enclosed the updated muffler/INS list for the 2012 season. On the list is 1 special muffler from Hipex (EFRA2095) which is the first low noise muffler. Please do not forget that the deadline for low noise is January 1st 2014. Whatever idea you have to reduce the noise, feel free to send us a sample so we can test noise level and performance. It is essential for the sport that we go back to a good level. Going back to 5 minutes racing without refueling and 16% of nitro on January 1st, 2013 for Track Racing is a first step. But it will need more. The Hipex EFRA 2095 is a first step to bring the noise level down. Feel free to contact the manufacturer RCE in Italy if you have suggestions or if you want to have information ([info@rce-marmite.it](mailto:info@rce-marmite.it)). The majority of the Mufflers on this list that are also used for Off-Road are properly OK, since the problems with high Reving is not the case in Off-Road. The majority of Engines in Off-Road is capable of making between 8 and 10 minutes on a single tank of 125cc. We will adapt an extra column in this sheet next year and mention if the muffler is made special for on or off-road

**mufflers 1/8th Muffler list 2012, dated March 1st 2012.**

EFRA 9901	Novarossi
EFRA2001	CRFrance
EFRA2004	CRFrance
EFRA2006	Novarossi
EFRA2011	Mielke / Thunder Tiger / RMV / Graupner / MSE
EFRA2012	BP
EFRA2015	NovaRossi
EFRA2017	Max Power
EFRA2018	Max Power / RB / Mega / Xceed
EFRA2020	R&B
EFRA2021	BlissRc, Sirio, Boss and SM
EFRA2022	Axe Rossi
EFRA2023	SPM
EFRA2024	SPM Off-road
EFRA2029	Radiosistemi
EFRA2030	Radiosistemi
EFRA2031	Radiosistemi/JP
EFRA2032	Radiosistemi
EFRA2033	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2034	Technokit/RCE/Hipex
EFRA2035	Thunder Tiger/Associated/Reedy
EFRA2036	Max Power
EFRA2037	ATS
EFRA2039	Thunder Tiger/Associated/Reedy

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EFRA2040	AxeRossi
EFRA2041	Mielke / Orcan / RMV / Xceed / MSE / Graupner / Ansmann / Thunder Tiger / Carson / Buggysport Racing
EFRA2042	OS Engines Mugen-Seiki / Ninja / S-Workz / JQ Products / Bullit-Nemo Racing
EFRA2043	OS Engines
EFRA2045	R&B
EFRA2046	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2047	Hong Nor/Fastrax
EFRA2048	Radiosistemi
EFRA2050	Axe Rossi
EFRA2051	R&R Non Solo Racing
EFRA2052	NovaRossi
EFRA2053	GRP Gandini
EFRA2054	GRP Gandini
EFRA2055	GRP Gandini
EFRA2056	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA2057	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA2058	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA2060	Shengine
EFRA2061	Mielke / Xceed / MSE
EFRA2062	Hongnor
EFRA2063	LRP / NOSRAM
EFRA2064	DI Monaco Model
EFRA2065	Orion
EFRA2066	Orion
EFRA2067	EDAM
EFRA2068	Capricorn
EFRA2069	RCE/Hipex/Gimar/PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2070	Mielke
EFRA2071	Team Losi
EFRA2072	Go Tech
EFRA2073	MAX
EFRA2074	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA3001	R&B
EFRA3002	R&B
EFRA3003	R&B
EFRA3004	NovaRossi
EFRA3005	NovaRossi
EFRA3006	NovaRossi
EFRA3007	NovaRossi
EFRA3008	GRP
EFRA3009	GRP
EFRA3011	BP
EFRA3012	Mielke / RMV / MSE / Orcan
EFRA3013	SPM
EFRA3014	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA3015	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA3016	Hongnor

EFRA3017	Radio Sistemi
EFRA3018	Radio Sistemi
EFRA3019	Radio Sistemi
EFRA3020	Schepis/Boss
EFRA3021	Di Monaco
EFRA3023	VP Racing
EFRA3024	Max
EFRA3025	OS
EFRA3026	OS
EFRA3027	OS
EFRA3028	OS
EFRA3029	Team Orion CRF
EFRA3030	Team Orion CRF
EFRA3031	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA3032	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA3033	SH/Golden Lion
EFRA3034	RCE
EFRA3035	RCE
EFRA3036	JP
EFRA3037	LRP 36220
EFRA3038	LRP 36230 / NOSRAM
EFRA3039	LRP 36240
EFRA3043	OEM-EFRA3025
EFRA3044	OEM-EFRA3026
EFRA3045	OEM-EFRA3027
EFRA3046	OEM-EFRA3028
EFRA2075	Shengine / Dynamite / Horizon
EFRA2076	LRP / NOSRAM
EFRA2077	Ital Trading / EZ Power
EFRA2078	Max
EFRA2079	Max
EFRA2080	Hong Nor
EFRA2081	SSTech/Alpha/Dynamite
EFRA2082	Grossi
EFRA2083	BlissRc, Sirio, Boss and SM
EFRA2084	NovaRossi
EFRA2085	Hudy / Xray
EFRA2086	Dimonaco
EFRA2087	RB
EFRA2088	PR-RC.com
EFRA2089	OS Engines / Mugen-Seiki / Ninja / S-Workz / JQ Products
EFRA2090	SStech/Alpha Plus
EFRA2091	VP
EFRA2092	RB
EFRA2093	Losi / LOSR8003
EFRA2094	Max-power
EFRA2095	Hipex new low noise pipe
EFRA2096	Novarossi
EFRA2097	R&B

EFRA2098	OS Engines
EFRA2099	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2100	Hudy
EFRA2101	Sworkz
EFRA2102	BlissRc, Sirio, Boss and SM

### Mufflers 1/10th

EFRA 2501	Mielke / Carson / Ansmann / RMV/ MSE
EFRA2502	R&B
EFRA2503	NovaRossi/Mega
EFRA2504	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA 2505	CR France
EFRA2601	NovaRossi
EFRA2602	Max power
EFRA2603	Associated
EFRA2604	R&B
EFRA2606	RCCpower
EFRA2607	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2608	Rossi, Axe
EFRA2609	Mugen
EFRA2610	Mielke
EFRA2611	Sirio by LM
EFRA2612	Sirio by LM
EFRA2613	Habbecke
EFRA2614	Schepis
EFRA2615	Max
EFRA2616	CR France
EFRA2617	IDM
EFRA2618	Technokit / Hipex / RCE
EFRA2619	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2620	Radiosistemi
EFRA2621	ATS
EFRA2622	SPM
EFRA2623	Team magic
EFRA2624	Mielke / Orcan / Xceed / MSE
EFRA2625	Team Magic
EFRA2626	Mielke / Xceed
EFRA2627	R&R Non Solo Racing
EFRA2628	LRP
EFRA2630	NovaRossi
EFRA2631	GRP Gandini
EFRA2632	GRP Gandini
EFRA2633	GRP Gandini
EFRA2634	Team Orion
EFRA2635	Team Orion

EFRA2636	Team Orion
EFRA2637	Team Orion
EFRA2638	Team Orion
EFRA2639	Kyosho type A
EFRA2640	Kyosho type B
EFRA2641	Serpent Mega
EFRA2642	Vantage
EFRA2643	Fioroni
EFRA2644	LRP
EFRA2645	Graupner
EFRA2646	Graupner
EFRA2647	Orion
EFRA2648	Capricorn
EFRA2649	Max
EFRA2650	EDAM
EFRA2651	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2652	NovaRossi
EFRA2653	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA2654	RCE/Hipex/GIMAR
EFRA2655	BlissRc, Sirio, Boss and SM
EFRA2656	Orion
EFRA2657	OS speed / Mugen
EFRA2658	Sirio Orion CRF Boss SM REDS Werks KM Epic by LM
EFRA3501	NovaRossi
EFRA2659	R&B
EFRA2660	NovaRossi
EFRA2661	Os-engines
EFRA2662	Capricorn
EFRA2663	Mielke / Orcan
EFRA2664	Max
EFRA2665	Max
EFRA2666	Max
EFRA2667	PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2668	R&B
EFRA2669	Hipex/PICCO/Xceed/Vox/Idm/Sonic/Reds/Lrp/BlissRC
EFRA2670	Max
EFRA2671	BlissRc, Sirio, Boss and SM



**INS boxes**

EFRA-INS200101	Serpent
EFRA-INS200201	Picco box, also sold by R&B
EFRA-INS200401	Mielke / Mugen Seiki original
EFRA-INS200701	NovaRossi
EFRA-INS200702	Mielke modified / Mugen Seiki, 4 holes inside
EFRA-INS200901	NovaRossi / R&B
EFRA-INS200902	Serpent / Xceed / Max / OS Speed
EFRA-INS200903	modified NR (lower 200901)
EFRA-INS201001	Hobby Pro / Team C
EFRA-INS201101	Mielke

Regards,

Sander de Graaf

EFRA 1:8 Track Section Chairman and homologation officer.