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EUROPEAN FEDERATION OF RADIO OPERATED MODEL AUTOMOBILES

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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). 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.

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|-----------|---|
| 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 |

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| 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 |

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| 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

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| 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 |

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| 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

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|----------------|---|
| 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.