

TEAM ORION

TEAM ORION

2002 **IFMAR** world champions

2003 PRODUCT GUIDE



Team-Orion Europe
 363 Rue de Bernex CH-1233 Bernex Switzerland
 Tel: 41-22-757-1528 Fax: 41-22-757-4186
 E-mail: europe@team-orion.com

Team Orion USA
 22601 La Palma Ave., Suite 103, Yorba Linda, CA 92887 USA
 Tel: 714-694-2812 Fax: 714-694-2815
 E-mail: usa@team-orion.com

Team Orion Asia
 3-22-20 Takaoka-Hita, Hamamatsu, Shizuoka 433-8119 Japan
 Tel: 81-53-439-9969 Fax: 81-53-439-0844
 E-mail: asia@team-orion.com

INTRO/CONTENTS

www.team-orion.com



< contents >

2	intro
3	promotional
4-7	motors/motor accessories
8-9	engines
10-12	batteries/battery accessories
13	electronics
14-16	wheels/tires/CA glue
17	pro-LCS/micro parts
18	micro chassis
19	thunder designs

For over 15 years, Team Orion has been dedicated to developing revolutionary products that succeed at every level of competition.

The ground breaking V-Max battery voltage enhancement system took the world by storm and is the basis by which other systems are judged. Team Orion's revolutionary surface mount capacitor system was the first of its kind and can now be found on almost all competition motors sold worldwide. Thunder Designs Internal Graphic Sets, like no other product on the market, allow enthusiasts to create concourse quality bodies with minimal hassle and expense.

We at Team Orion confidently offer a lifetime warranty against manufacturing defects. Product support is available worldwide through our three international locations.

Team Orion is committed to the constant development of innovative new products and the results speak for themselves. Whether at the IFMAR World Championship or a Saturday night club race, you can be sure that drivers using Team Orion products will be the ones out front.

You guys have bombarded us with telephone calls and e-mails asking where to buy the phat shirts and stickers you see on team drivers and their cars. Well we finally have an answer for you. Ask your local hobby shop to give us a call and place a special order for the products you want to purchase. Or if you are connected to the internet you can check out Team Orion's e-Shop at www.team-orion.com. All of our latest, t-shirts, sweatshirts, caps, and stickers are just a few mouse clicks away!

Finally, you can wear R/C apparel in public and not look like a dork. Thanks Team Orion!



- 43130 Gray Skull T-shirt S
- 43131 Gray Skull T-shirt M
- 43132 Gray Skull T-shirt L
- 43133 Gray Skull T-shirt XL
- 43134 Gray Skull T-shirt XXL
- 43136 Big O Sweatshirt M
- 43137 Big O Sweatshirt L
- 43138 Big O Sweatshirt XL
- 43139 Big O Sweatshirt XXL
- 43141 Armature Sweatshirt M
- 43142 Armature Sweatshirt L
- 43143 Armature Sweatshirt XL
- 43144 Armature Sweatshirt XXL
- 43155 Blue Flame2 T-Shirt S
- 43156 Blue Flame2 T-Shirt M
- 43157 Blue Flame2 T-Shirt L
- 43158 Blue Flame2 T-Shirt XL
- 43159 Blue Flame2 T-Shirt XXL
- 43160 Nitro Skull T-Shirt S
- 43161 Nitro Skull T-Shirt M
- 43162 Nitro Skull T-Shirt L
- 43163 Nitro Skull T-Shirt XL
- 43164 Nitro Skull T-Shirt XXL



43314 Pre-cut Armature Sticker

headgear

Team Orion's Armature hat features "one size fits all" Flexfit, low-profile design.

43015 Armature Hat



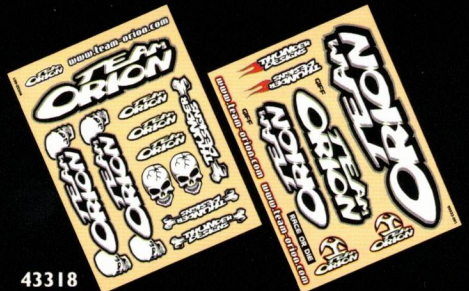
decals

Let the competition know who powers the winner's cars with Team Orion decal sets and bumper stickers.

- 43304 Factory Team Sticker Set - 4 Pcs
- 43314 Pre-cut Armature Sticker 6.5 - 9.5in.
- 43317 Nitro Sticker Set
- 43318 Race or Die Sticker Set



43317



43318

PROMOTIONAL



Own the same motor that guided Jukka Steenari to a second consecutive World Championship! Continuous engineering and development of the TOP based modified led to the features found in the Jukka's winning Core modified motor. Pattern winding, Zero Gravity epoxy balancing, dual ball bearings, Ultra Flow can and endbell, dual brush dampers, and high strength G12 magnets are part of the championship winning design and are found in every Core modified.

The Core's armature features extra wide webbing for more low end torque balanced by trued stacks that maximize RPM resulting in an armature that requires less balancing material. This lighter armature results in a more powerful and efficient motor! Pro brush springs combined with Team Orion's 10-30 run brushes produce excellent power while maximizing commutator life.

This combination has already tasted victory in the hands of privateers and factory drivers. Now it's time for you to experience the thrill of victory!

23151	6x1	23177	10x3	23191	12x4
23152	6x2	23178	10x4	23192	12x5
23157	7x1	23179	10x5	23195	13x2
23158	7x2	23181	11x1	23196	13x3
23163	8x1	23182	11x2	23197	14x2
23164	8x2	23183	11x3	23198	14x3
23169	9x1	23184	11x4	23199	15x2
23170	9x2	23185	11x5		
23171	9x3	23187	12x1 Hi-Torque		
23172	9x4	23188	12x1 Hi-Speed		
23175	10x1	23189	12x2		
23176	10x2	23190	12x3		



A pattern wound, epoxy balanced armature produces a more powerful and efficient motor



A wider web increases magnetic field strength resulting in improved power and efficiency

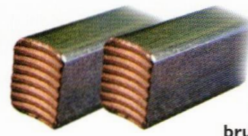


The Core Touring shares the same features as the Core Modified but has been tuned for optimum performance in competition touring cars. In the ultra competitive world of touring car racing you can't afford to accept anything less than the best - Team Orion's Core Touring motor.

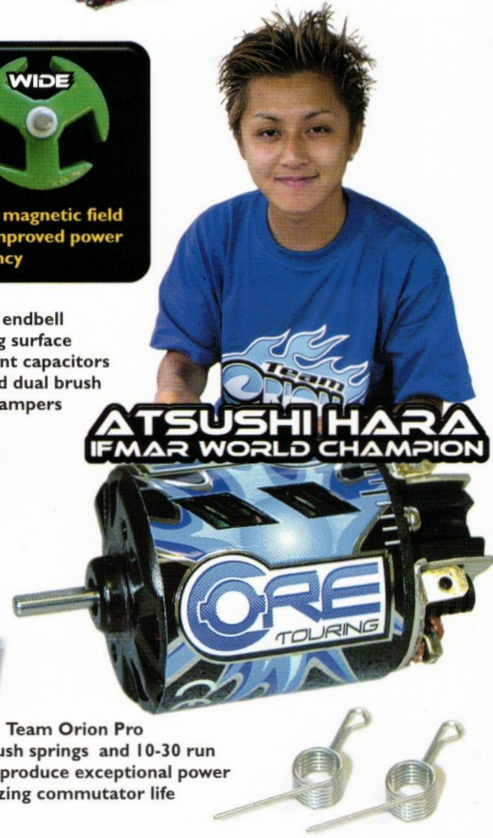
24101	6x1	24127	10x3	24141	12x4
24102	6x2	24128	10x4	24142	12x5
24107	7x1	24129	10x5	24144	13x1
24108	7x2	24131	11x1	24145	13x2
24113	8x1	24132	11x2	24151	14x2
24114	8x2	24133	11x3	24157	15x2
24119	9x1	24134	11x4		
24120	9x2	24135	11x5		
24121	9x3	24137	12x1 Hi-Torque		
24122	9x4	24138	12x1 Hi-Speed		
24125	10x1	24139	12x2		
24126	10x2	24140	12x3		



Ultra Flow endbell showing surface mount capacitors and dual brush dampers

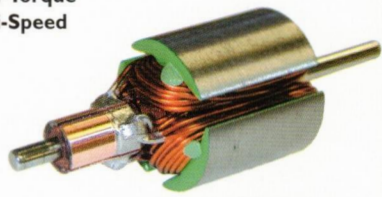


Team Orion Pro brush springs and 10-30 run brushes produce exceptional power while maximizing commutator life



Install a new armature when your existing armature's commutator has exhausted its useful life or when you want to try a new wind without the expense of an entire motor. Purchasing a Team Orion armature is also a good way to turn other brands of motors into a fire breathing Team Orion motor. Team Orion's Core armatures feature pattern winding, Zero Gravity epoxy balancing, high temperature copper wire, and a diamond-trued commutator.

26070	Core Armature 6x1	26094	Core Armature 10x1	26106	Core Armature 12x1 Hi-Torque
26071	Core Armature 6x2	26095	Core Armature 10x2	26107	Core Armature 12x1 Hi-Speed
26076	Core Armature 7x1	26096	Core Armature 10x3	26108	Core Armature 12x2
26077	Core Armature 7x2	26097	Core Armature 10x4	26109	Core Armature 12x3
26082	Core Armature 8x1	26098	Core Armature 10x5	26110	Core Armature 12x4
26083	Core Armature 8x2	26100	Core Armature 11x1	26111	Core Armature 12x5
26088	Core Armature 9x1	26101	Core Armature 11x2	26113	Core Armature 13x1
26089	Core Armature 9x2	26102	Core Armature 11x3	26114	Core Armature 13x2
26090	Core Armature 9x3	26103	Core Armature 11x4	26120	Core Armature 14x2
26091	Core Armature 9x4	26104	Core Armature 11x5	26126	Core Armature 15x2



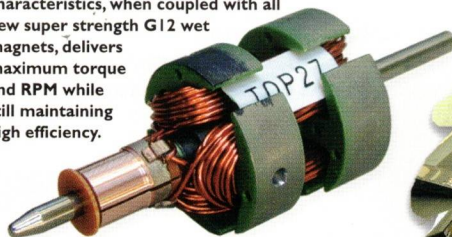


World Championship TOP technology can be found in all Team Orion motors, including the Core Stock RS rebuildable stock

motor. Pre-installed surface mount capacitors eliminate the need to solder any additional capacitors. The Speed Treated version comes with a precision diamond cut commutator, special race brushes, zapped magnets, and treated bushings - a few extra features that make it perfect for those who want to bolt in a race winning motor without any hassle.

- 20020 Core Stock RS
- 20021 Core Stock RS Speed Treated
- 26502 Core Stock Spare Armature
- 41418 Core Stock Can
- 41419 Core Stock Endbell

The dual stack, Power Tunnel armature's high RPM characteristics, when coupled with all new super strength G12 wet magnets, delivers maximum torque and RPM while still maintaining high efficiency.



2002 Off-Road Stock Nationals Handout Motor



A dyno test printout is included in the Speed Treated version to help establish gear ratios and determine the motor's power output. The standard version is perfect for those enthusiasts who want to add their own secret set-up.

Actual Dyno Test Data:

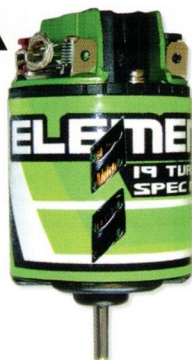
Battery Simulation:	7.5v
RPM	28038
Power Max.	116.3W
Power Avg.	75.5W
Efficiency Max.	60.9%
Efficiency Avg.	39.5%

MOTORS

ELEMENT 19 TURN SPEC MOD

The Element is based on Team Orion's World Championship winning design and features a tagged, full armature wrapped with 19 turns of 19 gauge wire, dual ball bearings, removable endbell equipped with laydown brushes and surface mount capacitors, fixed 24 degree timing, and G12 high power wet magnets. These features combine to produce a powerful combination that is tough to beat.

- 20022 Element 19 Turn Spec Motor
- 26503 Element 19 Turn Spare Armature
- 41420 Element Can
- 41421 Element Endbell



Orbital 2 Mach-Mod

The Orbital 2 Mach Mod utilizes the World Championship winning TOP design featuring a machine wound and drill balanced armature, dual bushings, G12 High power wet magnets, and a fixed endbell with pre-installed surface mount capacitors. The Orbital 2 Mach Mod provides maximum performance at an economical price. Bullet connectors are standard.

- 21013 10x3
- 21014 11x3
- 21015 12x3
- 21016 13x3
- 21017 14x3
- 21018 17x3
- 21019 19x3
- 21020 21x3
- 21021 23x3



Orbital 2 Pro-BB

For those that want the performance of a hand wound modified at a fraction of the price, the Orbital 2 Pro BB is the answer. With the exception of its machine wound armature, the Pro BB comes standard with the exact same features found in the Core Modified and Touring motors. If you want to begin racing modified or want a killer motor for less, the Pro BB is the perfect solution. Bullet connectors are standard.

- 22013 10x3
- 22014 11x3
- 22015 12 x3
- 22016 13x3
- 22017 14x3
- 22018 17x3
- 22019 19x3



RUSH

The Rush is derived from Team Orion's ground breaking Pilot series of budget machine wound motors. However, unlike the Pilot, the Rush features an armature supported by dual ball bearings and adjustable timing. A removable endbell allows complete servicing of the motor's internal parts.

- 25100 Rush 11x2
- 25101 Rush 13x2
- 25102 Rush 15x2
- 25103 Rush 17x2
- 25104 Rush 19x2
- 25105 Rush 21x2
- 25106 Rush 23x1
- 25107 Rush 27x1



Havok

Team Orion's Havok combines the simplicity of fixed timing with a race-bred armature supported by dual ball bearings. The brushes and springs can be serviced and changed for long life and maximum performance. Bullet connectors are standard.

- 25010 Havok 11x2
- 25011 Havok 13x2
- 25012 Havok 15x2
- 25013 Havok 17x2
- 25014 Havok 19x2
- 25015 Havok 21x2
- 25016 Havok 23x1
- 25017 Havok 27x1



6



VORTEX

BRUSHLESS MOTOR



Hang on! Team Orion is ready to take you to new levels of R/C car performance and technology! Prepare to explore the future; a new realm of extended motor life, durability, and consistency with the sensorless Vortex brushless motor and controller.

The Vortex motor is available in three versions with names that indicate the equivalent speed of a brushed motor of that many turns. For example, the Vortex 10 with a 7.2-volt battery pack will offer performance in the same range as a 10 turn brushed motor. However, each motor will have all the advantages of a brushless motor.

By eliminating inherently inefficient brushes, electrical contacts are eliminated resulting in improved efficiency that extends run times, increases power output, and maximizes lifespan. Replacement brushes and springs as well as commutator lathes are no longer necessary!

The Vortex controller is suitable for use with 6-12 cells and is designed specifically for use with Vortex motors.



- 28000 Vortex Brushless Motor 8
- 28001 Vortex Brushless Motor 10
- 28002 Vortex Brushless Motor 12
- 63000 Vortex Controller
- 63001 Vortex Pro Controller

MOTORS

MICRO MANIA

Team Orion leads the way in developing new and innovative motors for the HPI Micro RS4 and the latest park and backyard airplanes and helicopters. Born from over 15 years of experience in the electric motor, battery, and electronics fields, Team Orion micro motors offer added speed, power, and excitement to micro cars and aircraft.

ELITE micro modified

For serious racers or those that just have the need for speed, the Elite Modified is the most powerful motor able to be installed in a Micro car! Because of its coreless design it will deliver 2 to 3 times the power of the original motor! Precision made in Switzerland, this high-tech power plant will give you unexpected power from its compact design.



- 20900 Elite Micro Modified

ELITE micro stock

Team Orion's Elite Stock motor replaces the standard motor included with your Micro kit. This motor is ideal for use with up to 7.2 volts and will provide improved performance and long life.

- 20901 Elite Micro Stock

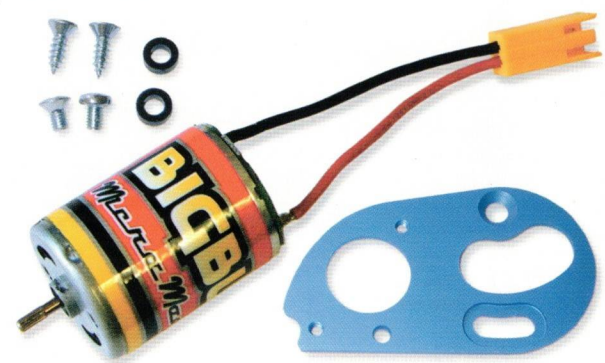


BIGBLOCK

Micro Modified

Turn your Micro into a rocket with Team Orion's Big Block motor set. To make installing this large size power unit possible, a blue anodized motor plate, plastic spacers, screws, and detailed instructions are all included! With up to 30,000 rpm and measuring in at 24.4mm in diameter and 30.8 mm in length, this is the largest motor that can be installed into the Micro RS4!

- 20902 Big Block Micro Motor Set
- 20903 Big Block Micro Motor Only
- 48004 Big Block Motor Plate



MICRO CORE MODIFIED

Experience new levels of fun by combining Core motor engineering and small size to produce amazing results from your micro vehicle! Undergo blazing-fast speed in a new look from the all-new 45-turn Core Micro Modified with external replaceable brushes. Made to fit the micro without any modifications, this new motor includes a micro plug and anti glitching device.

- 20904 Core Micro Modified
- 41290 Core Micro Brushes (compatible with HPI Modifieds)



AIR FORCE

The micro revolution continues as you prepare to fly high with the introduction of Team Orion's coreless Air Force motor. Because of its coreless design, it delivers 2 to 3 times the power of most standard motors! The Air Force also includes wires instead of tabs for greater durability and easy plug installation.

- 20906 AirForce Micro Airplane Motor



CHOPPER

From the originator of high power hop up micro motors, Team Orion invites you to own the sky with the new coreless Chopper. For exclusive use in micro helicopters, the coreless Chopper motor is the most powerful micro replacement available. For greater durability and ease of plug installation, the Chopper comes with wires instead of tabs.

- 20907 Chopper Micro Heli Motor



quick-set motor lathe

A commutator lathe is one of the best investments both serious racers and hobbyists can make. The Team Orion Quick-Set commutator lathe's fine pitch adjustments in conjunction with its finely machined materials give the user precise and accurate results. Each lathe comes with a drive motor, carbide bit, on/off switch, and Quick-Set adjustment. Remember, continuing to true your commutator and replace brushes at recommended intervals will increase both the lifespan and performance of your motor.

- 41600 Quick-Set Motor Lathe
- 41601 Pro Diamond Bit

motor brushes

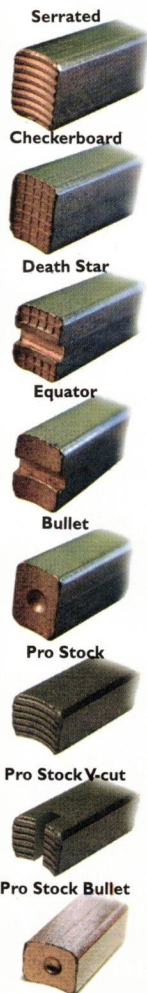
The connection between the brush and commutator is one of the most critical electrical connections in your car. A good brush can make the difference between the A and B main. The proper brush can also greatly extend the life of your motor. Team Orion develops all its brushes "in house" and tests all its compounds with help from its worldwide racing team. We believe brush compounds that make the grade in international competitions are then suitable for sale to the public. When you choose Team Orion brushes, you can be confident you are buying the best.

Glossary

Compound: Brushes are comprised of a mixture of graphite and copper or silver. The Sprint compound features a third secret ingredient. The mixture of the above ingredients determines the performance of the brush. Generally, more metal content means the brush will deliver more power while wearing the commutator more quickly. Brushes with more graphite last longer. Our Enduro compound is intended for those drivers who like a lot of power but do not want to service their motors often. The Sprint compound is a full race compound and is generally considered to be equal to or better than the best brushes on the market.

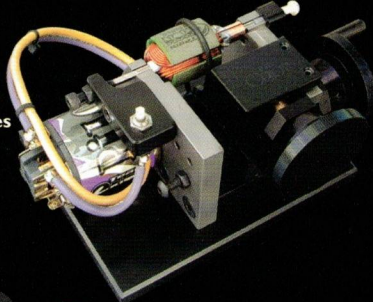
Style: Brushes come with several face styles. Serrated face brushes break in more quickly as they have less surface area and are pre-contoured to match the shape of the commutator. Brushes with slots or holes have less surface area and provide more RPM with less amp draw at the expense of power output. Stand up brushes are generally used in modified motors while laydown brushes are used in stock motors. Be patient, it takes some experimenting to find the brush that best suits your type of racing and driving style.

Runs: We rate our brushes based on how many runs you can expect under average circumstances. Different vehicles, driving styles, and track conditions can increase or decrease the life of your brushes. With 10-30 brushes you can expect 10 to 30 runs under average conditions.



Eyelets: Team Orion brushes come with or without eyelets. If you prefer to screw your brushes to the motor's endbell you will want to make sure you purchase brushes with eyelets. If you are a little more serious about maximum performance the standard brushes are easily soldered to the endbell.

- 41005 Serrated Modified 10-30 Enduro
- 41105 Serrated Modified 10-30 Enduro w/eyelet
- 41006 Checkerboard Modified 10-30 Enduro
- 41106 Checkerboard Modified 10-30 Enduro w/eyelet
- 41007 Death Star Modified 10-30 Enduro
- 41107 Death Star Modified 10-30 Enduro w/eyelet
- 41008 Equator Modified 10-30 Enduro
- 41108 Equator Modified 10-30 Enduro w/eyelet
- 41009 Bullet Modified 10-30 Enduro
- 41109 Bullet Modified 10-30 Enduro w/eyelet
- 41015 Serrated Modified 2-6 Sprint
- 41115 Serrated Modified 2-6 Sprint w/eyelet
- 41016 Checkerboard Modified 2-6 Sprint
- 41116 Checkerboard Modified 2-6 Sprint w/eyelet
- 41017 Death Star Modified 2-6 Sprint
- 41117 Death Star Modified 2-6 Sprint w/eyelet
- 41018 Equator Modified 2-6 Sprint
- 41118 Equator Modified 2-6 Sprint w/eyelet
- 41019 Bullet Modified 2-6 Sprint
- 41119 Bullet Modified 2-6 Sprint w/eyelet
- 41200 Pro Stock Serrated 10-30 Enduro
- 41201 Pro Stock 10-30 Enduro w/eyelet
- 41202 Pro Stock V-cut 10-30 Enduro
- 41203 Pro Stock V-cut 10-30 Enduro w/eyelet
- 41209 Pro Stock Serrated 2-6 Sprint
- 41210 Pro Stock V-cut 2-6 Sprint
- 41211 Pro Stock Bullet 2-6 Sprint
- 41219 Pro Stock Serrated 2-6 Sprint w/eyelet
- 41221 Pro Stock Bullet 2-6 Sprint w/eyelet
- 41222 Pro Stock V-cut 2-6 Sprint w/eyelet



lubricants

Speedy Drop Pro's special formulation is perfect for getting that extra jump off the starting line without gumming up and dragging you down in the final minutes of your race. It also eliminates commutator damage when applied to new brushes during the initial break-in period.

New and improved Free Revs Pro has been developed for use on both bushings and ball bearings. Free Revs Pro eliminates drag therefore increasing power and longevity.



- 41703 Speedy Drops Pro
- 41704 Free Revs Pro

MOTOR ACCESSORIES

motor springs

Alter the power band and characteristics of your motor by changing your motor spring tension. Try a little stiffer spring for more torque and a little softer for more RPM. The springs have additional material at the spring/brush connection to increase heat dissipation and are color coded for easy identification.



- 41307 Stock Motor Speed Springs Set - 1 pr.
- 41310 Pro Stand Up Motor Springs - 90° / 7 oz.
- 41311 Pro Stand Up Motor Springs - 115° / 9 oz.
- 41312 Pro Stand Up Motor Springs - 135° / 11 oz.
- 41313 Pro Stand Up Motor Springs - 150° / 12 oz.
- 41314 Pro Stand Up Motor Springs - 175° / 14 oz.
- 41315 Pro Stand Up Motor Springs Set - 5 pr.
- 41324 Pro Laydown Motor Springs - 90° / 7 oz.
- 41325 Pro Laydown Motor Springs - 115° / 9 oz.
- 41326 Pro Laydown Motor Springs - 135° / 11 oz.
- 41327 Pro Laydown Motor Springs - 150° / 12 oz.
- 41328 Pro Laydown Motor Springs - 175° / 14 oz.
- 41329 Pro Laydown Motor Springs Set - 5 pr.

other motor accessories

- 41400 Ball Bearing
- 41401 Shim Set - 10 Pcs
- 41402 Capacitors - 3 Pcs
- 41403 Schottky Diodes - 2 Pcs
- 41404 Motor Maintenance Set
- 41423 Core Modified Motor Can
- 41424 Core Touring Motor Can
- 41602 Commutator Cleaning Stick
- 41417 Teflon Motor Shims - 10 Pcs
- 41811 Short Antenna 27 Mhz / 40 Mhz

WASP .12 *competition*

The invasion has begun! Team Orion has deployed the Wasp .12 into combat against low power, fuel thirsty competition. Designed to engage in full force nitro racing, the Wasp .12 produces enough power to overrun the opposition while preserving maximum fuel efficiency and longevity.

The Wasp .12 OFF-ROAD is intended specifically for off-road applications. Internal construction has been optimized to provide smooth throttle response and minimal fuel consumption. Team Drivers have experienced over 12 minutes per tank under race conditions! An oversized cooling head keeps temperatures in check.

The Wasp .12 SE and SE-PS are designed to replace the standard side exhaust engines found in many car kits. By simply installing a Wasp, power and top speeds increase dramatically. An easy to use pull starter (SE-PS) eliminates the need for cumbersome starter boxes.

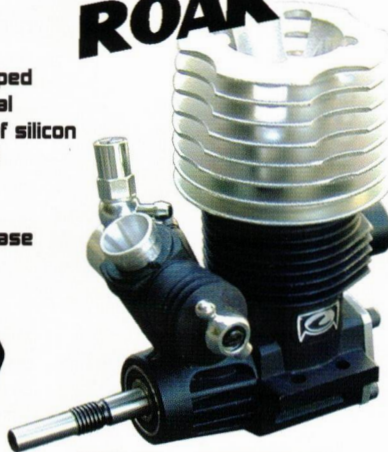
The Wasp .12 TURBO and Wasp .12 ROAR, designed for the serious on-road racer, feature construction that produces world-class power. The TURBO, assembled with a turbo crankshaft, combines the latest innovation in car engine design with a separate, large size conical turbo seat combustion chamber insert and new slide aluminum carburetor. The ROAR features the same high tech carburetor but meets all the specifications for sanctioned competition.

All Wasp engines feature:

- 12mm crankshaft
- Three ports, hard chromed brass lapped liner, completely CNC machined special alloy piston with a high percentage of silicon
- Aerodynamic design with lightweight double bushing connecting rod
- Swiss precision ball bearings
- Machined heat sink and black crankcase for maximum cooling
- Precision racing carburetor

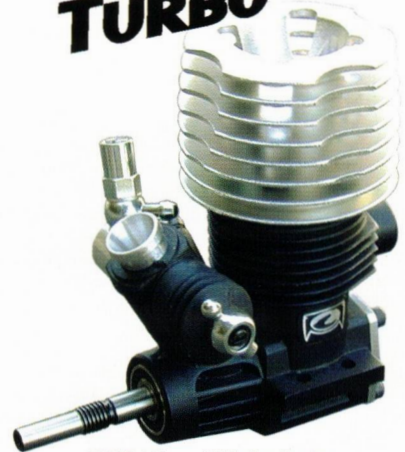
SUPERIOR POWER!
SUPERIOR LIFE!

ROAR



80051 Wasp .12 ROAR Engine
(rear exhaust, SG shaft, slide carb.)

TURBO



80052 Wasp .12 Turbo Engine
(rear exhaust, SG shaft, slide carb.)

OFF-ROAD



80053 Wasp .12 Off-Road Engine
(rear exhaust, STD shaft, rotary carb.)

SIDE EXHAUST



80060 Wasp .12 SE Engine
(side exhaust, STD shaft, rotary carb.)

SIDE EXHAUST PULL START



80061 Wasp .12 SE-PS Engine
(side exhaust, STD shaft, rotary carb., pull start)

TEAM ORION
NITRO

Part #	Engine	RPM	HP	Bore	Stroke	Exhaust	Shaft	Carburetor
80051	Wasp .12 ROAR	37,000	1.45	13.8	14.0	Rear	SG	Slide
80052	Wasp .12 Turbo	38,000	1.50	13.8	14.0	Rear	SG	Slide
80053	Wasp .12 Off-Road	36,700	1.40	13.8	14.0	Rear	Std	Rotary
80060	Wasp .12 SE	34,600	1.30	13.8	14.0	Side	Std	Rotary
80061	Wasp .12 SE-PS	34,000	1.25	13.8	14.0	Side	Std	Rotary

WASP.12 exhaust

Designed and tuned specifically for use with the Wasp .12, Team Orion exhaust manifolds and tuned pipes create maximum power while maintaining a smooth, usable power band. A welded pressure fitting ensures reliable engine operation. Pimp polished or no-nonsense black finishes are available.

- 88000 Inline Exhaust Kit (manifold and pipe) - polished
- 88001 Inline Exhaust Kit (manifold and pipe) - black
- 88050 Inline Exhaust Manifold - polished
- 88052 Standard Exhaust Manifold - polished
- 88100 Inline Tuned Pipe - polished
- 88101 Inline Tuned Pipe - black
- 88102 Standard Tuned Pipe - black



ENGINE/ACCESSORIES

WASP.12 spare parts

81000 Wrist Pin Retainer (2pcs.) (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81021 Cone Rear Exhaust (.12 Turbo, ROAR, Off-Road)	81041 Carb. Rotary Spring
81001 Cylinder Pin (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81022 Crankcase Standard Exhaust (.12 SE, SE-PS)	81042 Carb. Slide Drum
81002 ABC Cylinder/Piston (.12 SE, SE-PS)	81023 Crankcase Rear Exhaust (.12 Turbo, ROAR, Off-Road)	81043 Carb. Rotary Drum
81003 Rear Exhaust Wrist Pin (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81024 Head (.12 Turbo, ROAR, SE, SE-PS)	81044 Ball Joint Aluminum Carb. (slide carb.)
81004 ABC Cylinder/Piston (.12 Off-Road)	81025 Head Off-Road (.12 Off-Road)	81045 Rotary Carburetor (.12 SE, SE-PS, Off-Road)
81005 ABC Cylinder/Piston (.12 Turbo, ROAR)	81026 Rear Cover (.12 Turbo, ROAR, SE, Off-Road)	81046 Carb. Body Rotary
81006 Connecting Rod Competition (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81027 Rear Cover (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81047 Carb. Rubber Protection (rotary carb.)
81007 0.1mm Head Gasket (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81028 Carburetor Locking (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81048 Silicone Rubber Protection (slide carb.)
81008 0.2mm Head Gasket (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81029 Rear Cover Pull Start (.12 SE-PS)	81049 Maximum Needle (slide/rotary carb.)
81009 O-Ring Crankcase (2pcs.) (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81030 Pull Starter (.12 SE-PS)	81050 Carb. Minimum Needle (rotary carb.)
81010 Screw M3x15 (2pcs.) (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81031 Pull Starter Shaft Carrier (.12 SE-PS)	81051 Minimum Needle Slide (slide carb.)
81011 Insert Head (.12 ROAR, SE, SE-PS, Off-Road)	81032 Fuel Fitting Torque (slide/rotary carb.)	81052 Carb. Main Needle O-Ring (2pcs.) (rotary carb.)
81012 Turbo Insert Head (.12 Turbo)	81033 Plate Screw (4pcs.) (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81053 Pull Start Screw (4pcs.) (.12 SE-PS)
81013 Washer (.12 SE, SE-PS)	81034 O-Ring Max Needle (2pcs.) (slide/rotary carb.)	81054 Carburetor Slide 5.5mm (.12 Turbo, ROAR)
81014 Rear Ball Bearing (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81035 O-Ring 4x2 Torque (4pcs.) (slide carb.)	81055 Plastic Body Slide Carb. 5.5mm
81015 Crankshaft ROAR (.12 SE, Off-Road)	81036 Air Screw Spring (slide/rotary carb.)	81056 Carb. Lever (rotary carb.)
81016 Std Shaft Pull Start (.12 SE-PS)	81037 Carb. Air Screw 9mm (rotary carb.)	81057 Carb. Nut (rotary carb.)
81017 Crankshaft ROAR SG (.12 ROAR)	81038 Carb. Air Screw (slide carb.)	81058 Max. Needle Support (slide/rotary carb.)
81018 Crankshaft SG Competition (.12 Turbo)	81039 Washer Torque (2pcs.) (slide/rotary carb.)	81059 Gasket Standard (.12 SE, SE-PS)
81019 Front Ball Bearing (.12 Turbo, ROAR, SE, SE-PS, Off-Road)	81040 Screw M3x3 (slide carb.)	81060 Complete One Way Adapter (.12 SE-PS)
81020 Cone (.12 SE, SE-PS)		

cleaning spray



Team Orion's Motor Cleaning spray is suitable for use on all electric motors, commutators, brushes, bushings, ball bearings, and chassis components without leaving residue. Its large size and powerful nozzle make removing dirt and oil from critical components a breeze. Best of all, it's safe for plastics and the environment (no CFCs).

41702 Motor Cleaning Spray



Keep your nitro vehicles clean with Team Orion's new Nitro Speed Clean. Formulated for thorough, quick, and residue free cleaning of both engine and chassis components, Nitro Speed Clean prevents maintenance problems so more time is spent on the track and less time in the pits. Safe for plastics and the environment (no CFCs).

41705 Nitro Speed Clean

nitro clips

Losing body clips is not only irritating and expensive, but also downright embarrassing! Nitro Clips, developed to handle the rigors of nitro racing, feature a locking device that keeps both clip and body secure. It's finally time to say goodbye to lost clips and flapping "alligator" bodies.

41812 Stainless - 6pc.



shock oil



Team Orion's constant viscosity shock oil consumes heat without breaking down even under the harshest conditions. Whether you are filling 1/12th scale micro shocks or T-Maxx behemoths, precision damping is maintained throughout the duration of your session.

- 44202 20 Weight
- 44204 25 Weight
- 44206 30 Weight
- 44208 35 Weight
- 44210 40 Weight
- 44212 45 Weight
- 44214 50 Weight
- 44216 55 Weight
- 44218 60 Weight
- 44220 65 Weight
- 44222 70 Weight
- 44224 75 Weight
- 44226 80 Weight

traction additive

Wheelie popping traction has never been easier to obtain! Team Orion's wide variety of on and off-road traction formulas and tire cleaners make wheelies commonplace and spinning tires a distant memory. The cleaner removes dirt, oil, and grime from the rubber leaving a clean surface while the traction formula softens and conditions the tire for maximum grip.

- 44100 TC Traction Formula #2
- 44101 TC Traction Formula #1
- 44103 TC Tire Cleaner
- 44105 Foam Traction Formula
- 44108 Off-Road Tire Cleaner
- 44109 Off-Road Traction Formula





Team Orion V-Max Plus RDS cells have been processed with high current (V-Max) to permanently increase voltage output and lower internal resistance. After a triple cycling period and V-Max processing, the cells are tested using RDS (race discharge simulation) on sophisticated Lavco computer controlled testing equipment in a climate-controlled environment. Linear charging and RDS are utilized to realistically portray the actual discharge each cell will experience and eliminate weak cells.

Battery Glossary:

V-Max Plus: Team Orion's World Championship winning voltage enhancement process.

RDS: Race Discharge Simulation is a testing process that simulates actual racing conditions.

Matched: Cells that share the same characteristics such as average voltage and run time are combined to form a high power battery pack.

Club: A matched pack with run time or voltage that falls in a lower range. Perfect for club racing or for those on a budget. Many Team Orion factory team drivers use these packs in their 2wd buggies.

Racer: A matched pack with high run time and voltage. These packs are suitable for high-level racing where good batteries are a necessity.

High Voltage: Packs suited for stock racing where run time is not as important as voltage.

Team: The ultimate pack for the serious racer or for those that want the best regardless of price.

internal resistance of the cell, the lower the number the more effective the cell is at releasing energy

average voltage of the cell more voltage = more punch

actual discharge time in seconds at designated discharge rate



cell **serial number**

total energy of the cell, useful in comparing cells with different run times or voltages

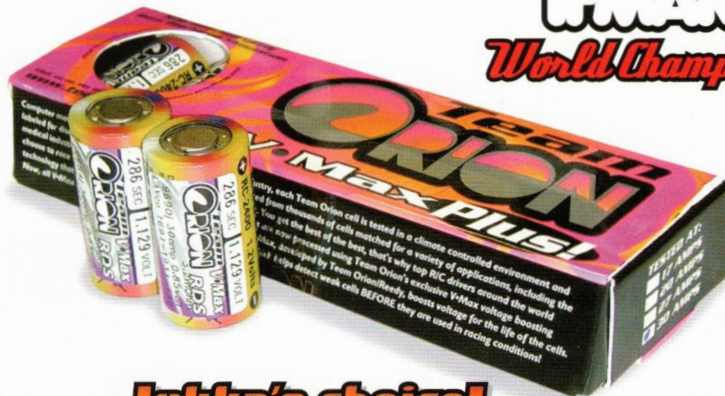
discharge rate cut-off voltage

BATTERIES

V-Max PLUS! RDS rc2400sp

The RC-2400SP delivers the ultimate in power and reliability for all types of R/C vehicles. Sanyo has been producing the best nicads in the world for the past 15 years. This track record, combined with Team Orion's V-max and RDS processes, produces cells that have been winning, and will continue to win competitions around the world. Available in four grades to suit both performance and budget requirements.

- 11290 RC-2400SP V-Max Plus Club 30 Amp
- 11291 RC-2400SP V-Max Plus Racer 30 Amp
- 11292 RC-2400SP V-Max Plus Team 30 Amp
- 11293 RC-2400SP V-Max Plus High Voltage 30 Amp



2002 IFMAR World Champions

Jokka's choice!

rc3000hv

The RC-3000HV (high voltage) combines high voltage and extreme capacity making it perfect for stock or modified class racers. This new cell, after V-max and RDS processes, maintains a significantly higher average voltage and lower internal resistance than the RC-2400SP or RC-3000SP. Available in three grades to suit both performance and budget requirements.

- 11320 RC-3000HV V-Max Plus Club 30 Amp
- 11321 RC-3000HV V-Max Plus Racer 30 Amp
- 11322 RC-3000HV V-Max Plus Team 30 Amp



"Highest voltage I've ever seen!"

gp3300

A revolutionary development in the R/C industry and excellent for both stock and modified racing, Team Orion's GP3300 cells are sure to outperform the competition by supplying the most consistent power available in a NiMH cell. According to initial test results that prove the cell's remarkable capabilities, a 30-amp discharge of the new GP3300 yields a capacity of over 400 seconds, an average voltage over 1.13 volts, and internal resistance in the low 3-milliohm range!

- 11352 GP3300 V-Max Plus Team 30 Amp 6 cell
- 11351 GP3300 V-Max Plus Racer 30 Amp 6 cell
- 11356 GP3300 V-Max Plus Team 30 Amp 4 cell
- 11355 GP3300 V-Max Plus Racer 30 Amp 4 cell

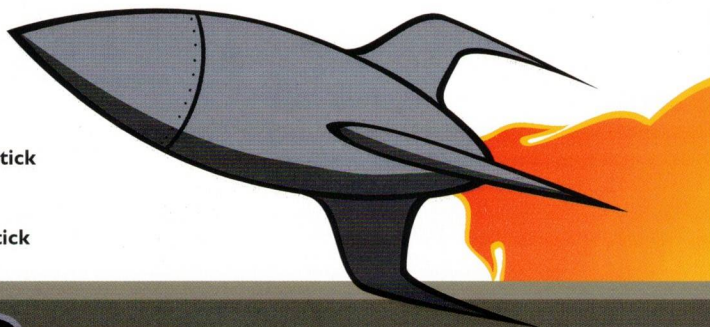


"Runtime for days"

ROCKET PACK

Rocket Packs are the result of extensive research including V-Max voltage enhancement technology and the latest nickel metal hydride development. Thirteen different models, from 1400 mAh to 3000 mAh, nicad or nickel metal hydride, voltage enhanced or standard, all with a Tamiya style connector, make it easy to find the battery pack best suited to your needs and within your budget.

- 10200 Rocket Sanyo RC-2400SP 7.2v Stick
- 10202 Rocket 1400 mAh 7.2v Stick
- 10203 Rocket 1500 mAh 7.2v Stick
- 10204 Rocket 1700 mAh 7.2v Stick
- 10205 Rocket 2000 mAh 7.2v Stick
- 10206 Rocket 2400 mAh 7.2v Stick
- 10209 Rocket Sanyo RC-3000HV 7.2v Stick
- 10210 Rocket Sanyo RC-2400SP V-Max Plus 7.2v Stick
- 10211 Rocket Sanyo RC-3000HV V-Max Plus 7.2v Stick
- 10213 Rocket Sanyo RC-3000HV Matched V-Max Plus 7.2v Stick
- 10217 Rocket 3000 Plus mAh 7.2v Stick
- 10218 Rocket GP3300 mAh 7.2v Stick
- 11300 Rocket Sanyo RC-2400SP Matched V-Max Plus 7.2v Stick



BATTERIES

SUPER DUTY

The V-Maxx Super Duty 2400 and Super Duty Plus 3000 7.2v battery pairs are perfect for the E-MAXX and other dual battery monster trucks with massive capacities on hand to deliver powerful, extra long run times. And yes, the price includes 2 packs!

- 10900 V-Maxx Super Duty 2400 - 1 pr.
- 10901 Super Duty Plus 3000 Ni-MH - 1 pr.



receiver packs

Team Orion's Pro 1100 receiver battery packs feature a massive 1100 mAh capacity and configurations for the most popular nitro cars on the market today. All Pro 1100 receiver battery packs are assembled with the latest edition nickel metal hydride cells and are fitted with a universal connector with industry leading 20 gauge wire.

- 12210 Standard hump (fits most cars)
- 12211 1/8 On-road stick
- 12212 1/8 Off-road hump
- 12213 Losi XXX-NT hump
- 12214 Assoc. RC10GT, Kyosho Ultima GP10 stick



12213 Losi XXX-NT hump



12211 1/8 On-road stick



12212 1/8 Off-road hump



12210 Standard hump (fits most cars)



12214 RC10GT, Kyosho Ultima GP10 stick



BATTERIES/ACCESSORIES

micro rocket pack

Small price - huge capacity. Team Orion's all new Micro Rocket Packs are designed to power up the popular HPI Micro RS4. For smooth installation, these packs are factory assembled with Ni-MH cells and come equipped with flexible, silicone insulated wires with an HPI micro plug for easy hook-ups.

- 13011 Micro Rocket Pack 6.0 volt
- 13021 Micro Rocket Pack 7.2 volt



6.0 volt



7.2 volt

micro pack pro

It is no secret that more power and runtime equals more fun! Team Orion's 6.0v and 7.2v battery packs use the highest quality nickel metal hydride cells assembled to create powerful and reliable battery packs capable of creating more power and attaining higher top speeds. These packs are a must have for all micro cars.

- 13010 Micro Pack Pro 6.0 volt
- 13020 Micro Pack Pro 7.2 volt

6.0 volt



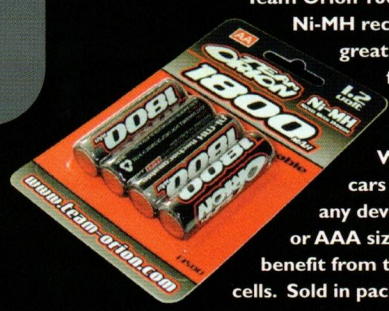
7.2 volt



1100 mAh!!

AAA and AA cells

Team Orion 1800 AA and 700 AAA Ni-MH rechargeables are a great universal product for powering up transmitters, receivers, Walkman, and Micro cars for example. In fact any device that requires AA or AAA size batteries will benefit from the use of these new cells. Sold in packs of four.



- 13200 700 mAh AAA Ni-MH Rechargeables (4 pcs.)
- 13500 1800 mAh AA Ni-MH Rechargeables (4 pcs.)

snake wire

Using Team Orion's Snake Wire is a simple way to reduce resistance in your car's electrical connections while at the same time giving a professional, customized look. Thick insulation combined with extreme flexibility makes Snake Wire perfect for use in any vehicle.

- 40300 14 Awg Snake Wire Black/Red (35.43 In)
- 40301 14 Awg Snake Wire Yellow/Purple (35.43 In)
- 40302 12 Awg Snake Wire Black/Red (19.68 In)
- 40303 12 Awg Snake Wire Yellow/Purple (19.68 In)

battery heatshrink

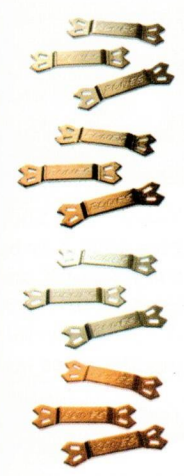
Tired of spending all your hard earned money on new batteries only to have them look old in a couple of race days? By using Team Orion's battery heatshrink you can protect your cells from the rigors of racing and keep them looking new by replacing the heatshrink on a regular basis. There is no better way to intimidate your competition than to make them believe you are running new packs all the time. Sizes for single cells and assembled packs are available.

- 40200 Heatshrink For Single Cells (12 pcs.)
- 40201 Heatshrink For Stick Pack Mix Colors (5 pcs.)
- 40202 Heatshrink For Stick Pack Pink (5 pcs.)
- 40203 Heatshrink For Stick Pack Clear (5 pcs.)

battery bones

Team Orion Battery Bones eliminate the need for heat trapping silicones, goops, and adhesives by providing a rigid skeleton for your expensive battery pack. The Bone's sharp edges work with solder to establish a permanent, low resistance connection. Copper, Silver, Gold, or Platinum versions are available in bags of 8 or 100 pieces.

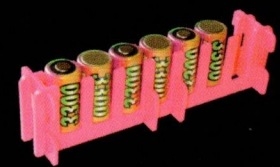
- 40110 Platinum Battery Bones (8 pcs.)
- 40111 Platinum Battery Bones (100 pcs.)
- 40112 Gold Battery Bones (8 pcs.)
- 40113 Gold Battery Bones (100 pcs.)
- 40114 Silver Battery Bones (8 pcs.)
- 40115 Silver Battery Bones (100 pcs.)
- 40116 Copper Battery Bones (8 pcs.)
- 40117 Copper Battery Bones (100 pcs.)



battery assembly jig

Build your expensive cells like the pros using Team Orion's Battery Jig. The jig holds your cells in place for easy soldering of Connectors, Bones, or Snake Wire.

- 40500 Battery Assembly Jig



connectors

Our famous Twisted Gold high power, super-efficient connectors resist popping out during heavy battles on the track. Gold plating resists corrosion resulting in improved conductivity and performance.



- 40000 Gold Connectors - 10 Tubes
- 40001 Gold Connectors - 100 Tubes
- 40002 Gold Connector Set - 2 Plugs, 10 Tubes
- 40003 Gold Connectors - 10 Plugs
- 40004 Gold Connectors - 100 Plugs

digital motor checker



Anyone who is serious about R/C understands that motors must be kept in top condition to obtain the best results. Team Orion's Digital Motor Checker measures current draw and commutator condition as an indicator of a motor's potential performance. An adjustable output of up to 5 volts makes it perfect for motor break-in or for powering commutator lathes.

41603 Digital Motor Checker

super charger d47



Five amp charge rate, automatic cut-off, reverse polarity protection and fuse protection in a compact package with an economical price make the D47 an all-around winner. Long input leads and large alligator clips allow easy charging of 4-7 cells from any 12-volt DC power source.

30000 Super Charger D47

digital charger d48

The D48 features an adjustable charge current of .5 - 5.5 amps making it perfect for charging 4 - 8 cell battery packs as well as receiver battery packs. The digital display can be switched to display charge current, battery pack voltage, or charge capacity. Automatic delta peak cut-off with reverse voltage and fuse protection lets you charge with confidence. A low current discharger prevents cells from developing memory. Long input leads and large alligator clips allow easy charging from any 12-volt DC power source.

30100 Digital Charger D48

digital charger d114

Equipped with the same features as the Digital Charger D48 but with a built-in voltage multiplier that allows charging of 1-14 cells.



30101 Digital Charger D114

ac/dc charger d48

The all-new AC/DC Charger D48 has a built-in AC power supply so you can charge at up to 6.5 amps from either your 12-volt power supply or from any 110-volt electrical outlet. Automatic delta peak cut-off with reverse voltage and fuse protection lets you charge with confidence. A low current discharger protects cells from developing memory. Long input leads and large alligator clips make difficult connections easy.

30500 AC/DC Charger D48

pro digital charger d67

Charge like the pros!!

If you are serious about racing or just want the best, the Pro Digital Charger D67 is your only choice. This extremely accurate charger features an adjustable charge rate of up to 10 amps from a 12-volt power source with



either delta peak or temperature cut-off. Scroll through the menu to view current, voltage, charge time, charge rate, or capacity. A convenient timer function protects against over-charging. Reverse voltage and fuse protection let you charge with confidence.

30102 Pro Digital Charger D67

receiver pack discharger

The Receiver Pack Discharger is the first product on the market developed specifically to discharge nitro receiver packs. These tiny packs require the same care as larger packs but are often neglected. Keep your nitro racer running the way it should be by making sure your receiver pack is in prime condition. Comes pre-assembled with a universal connector.

31201 Receiver Pack Discharger

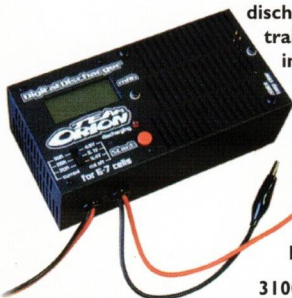


digital discharger

A choice of either a 20, 25, or 30 amp discharge rate keeps your packs trained for their specific use. An internal cooling fan keeps internal electronics cool for precise results. A digital display shows the battery's capacity so you can make motor and gearing decisions or determine how much run time remains after a race.

Requires a 12-volt power supply.

31000 Digital Discharger



active discharge device

Equalizing your battery packs is mandatory if you want to achieve maximum performance for extended periods of time. Side-by-side packs are placed in the tray so that each cell can be discharged individually to .5 volts at which time the discharge automatically stops. When all the cells reach this level a built in light shuts off indicating equalization.

This is a must have product for the serious racer!

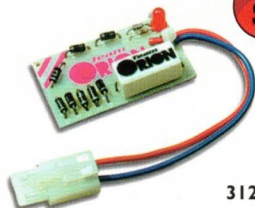
31100 Active Discharge Device



stick pack discharger

The stick pack version of the Active Discharge Device shuts off when your pre-assembled stick pack reaches 5.4 volts. At this level irritating memory effects are eliminated. Comes pre-assembled with a Tamiya style connector.

31200 Stick Pack Discharger



13

ELECTRONICS

Ni-MH
COMPATABLE

FRESH KICKS MONSTER TRUCK TIRES

Fresh Kicks Monster Truck and Super Truck tires utilize unique compounds, the latest computer design and production techniques with track developed tread designs to maximize traction while minimizing wear.

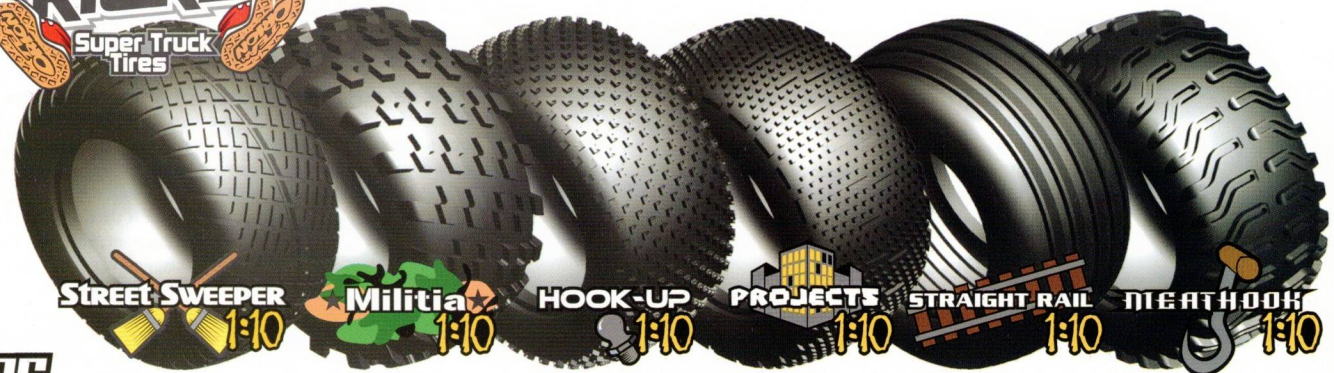


- Street Sweeper MAXX**
75510 Unmounted w/foam insert
76510 Mounted/Standard offset
76520 Mounted/.5" offset
- Death Hook MAXX**
75511 Unmounted w/foam insert
76511 Mounted/Standard offset
76521 Mounted/.5" offset
- Redneck MAXX**
75512 Unmounted w/foam insert
76512 Mounted/Standard offset
76522 Mounted/.5" offset
- Dominator MAXX**
75513 Unmounted w/foam insert
76513 Mounted/Standard offset
76523 Mounted/.5" offset

* Foam inserts are included with all tires
 * Mounted Maxx and 1/10 tires come pre-glued on Revolver chrome rims
 * Fresh Kicks Monster Truck Tires fit T-MAXX, E-MAXX, HPI Savage .21 and other similar vehicles

TIRES

FRESH KICKS Super Truck Tires



- Street Sweeper 1:10**
75401 U/P
75407 U/L
76402 M/P/AE/F
76403 M/P/AE/R
76404 M/L/AE/F
76405 M/L/AE/R
76452 M/P/TL/F
76453 M/P/TL/R
76454 M/L/TL/F
76455 M/L/TL/R
- Militia 1:10**
75402 U/P
75408 U/L
76406 M/P/AE/F
76407 M/P/AE/R
76408 M/L/AE/F
76409 M/L/AE/R
76456 M/P/TL/F
76457 M/P/TL/R
76458 M/L/TL/F
76459 M/L/TL/R
- Hook-Up 1:10**
75403 U/P
75409 U/L
76410 M/P/AE/R
76411 M/L/AE/R
76460 M/P/TL/R
76461 M/L/TL/R
- Projects 1:10**
75404 U/P
75410 U/L
76412 M/P/AE/R
76413 M/L/AE/R
76462 M/P/TL/R
76463 M/L/TL/R
- Straight Rail 1:10**
75400 U/P
75406 U/L
76400 M/P/AE/F
76401 M/L/AE/F
76450 M/P/TL/F
76451 M/L/TL/F
- Death Hook 1:10**
75405 U/P
75411 U/L
76414 M/P/AE/F
76415 M/P/AE/R
76416 M/L/AE/F
76417 M/L/AE/R
76464 M/P/TL/F
76465 M/P/TL/R
76566 M/L/TL/F
76467 M/L/TL/R

M = Mounted P = Pro Compound AE = Associated/Kyosho F = Front
 U = Unmounted L = Long Life Compound TL = Team Losi R = Rear

revolver

Chrome rims generally require the removal of the plating in the tire-mounting bead. Fresh Kicks Chrome Revolver Rims do not require this modification - the plating has already been removed for you!



- 73500 Revolver Monster Truck Standard
- 73501 Revolver Monster Truck .5" offset
- 73400 Associated/Kyosho Front Truck
- 73401 Associated/Kyosho Rear Truck
- 73410 Losi Front Truck
- 73411 Losi Rear Truck

FRESH KICKS Gumballs Micro Tires

Finally, gluing micro tires is a thing of the past! Have hassle free fun with glued and trued Team Orion foam micro tires. Factory glued with high strength adhesive to maximize quality assurance, foam tire sets are pre-mounted on visually prominent, designer chrome wheels. BLING! BLING!



- 76810 Foam Front (Soft)
- 76811 Foam Front (Medium)
- 76812 Foam Front (Hard)
- 76820 Foam Rear (Soft)
- 76821 Foam Rear (Medium)
- 76822 Foam Rear (Hard)

TEAM ORION micro wheels/tires

Increase performance and style with Team Orion's Micro RS4 alloy wheels and high performance rubber tires.

- 48030 5 Spoke Alloy Wheels - Front (1 pr.)
- 48031 5 Spoke Alloy Wheels - Rear (1 pr.)
- 48035 High Traction Tire Set - Medium (4 pcs.)
- 48036 High Traction Tire Set - Soft (4 pcs.)





Do you dread gluing tires? Would you rather spend more time behind the wheel? If so, throw away the glue bottles and beat your friends to the track with a perfect factory glue job by letting us do the work for you. Simply rip the tires out of the package, bolt them on your car, and BAMM!! - You're ready to roll!

76010	Fresh Kicks A Slick Tires 24mm	76015	Fresh Kicks A Slick Tires 26mm
76011	Fresh Kicks B Slick Tires 24mm	76016	Fresh Kicks B Slick Tires 26mm
76012	Fresh Kicks C Slick Tires 24mm	76017	Fresh Kicks C Slick Tires 26mm
76013	Fresh Kicks D Slick Tires 24mm	76018	Fresh Kicks D Slick Tires 26mm

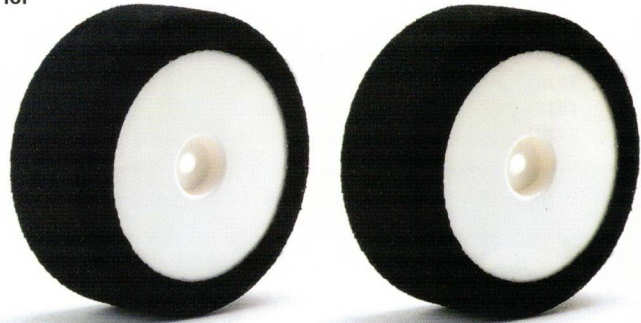


Stick your car to the track hassle free with glued, trued, and tattooed Team Orion foam touring car tires. Factory assembled with super-strength adhesive to maximize quality assurance, foam tire sets are pre-mounted on fashionably sleek Team Orion dish wheels for visually prominent driving purposes. Suitably designed to enhance the performance of both gas and electric touring cars, Fresh Kicks pre-mounted tires are lightweight and durable.

Foam Tire Glossary

Shore: The shore is the unit used to describe the hardness of rubber. The shore hardness is the resistance exercised by the foam to a body of defined shape being pressed into it under a defined spring pressure. The lower the shore number, the softer the tire. A softer tire gives more traction but wears faster than a harder tire.

Compound: The compound is a chemical combination of two or more elements combined in a fixed and definite proportion by weight. Team Orion uses different compounds for front and rear tires to obtain the best performances, lower wear, higher traction, greater stability, and higher corner speeds.



76120	30 shore 26mm front	76130	30 shore 26mm rear	76150	30 shore 30mm rear
76121	32 shore 26mm front	76131	32 shore 26mm rear	76151	32 shore 30mm rear
76122	35 shore 26mm front	76132	35 shore 26mm rear	76152	35 shore 30mm rear
76123	37 shore 26mm front	76133	37 shore 26mm rear	76153	37 shore 30mm rear
76124	40 shore 26mm front	76134	40 shore 26mm rear	76154	40 shore 30mm rear
76125	42 shore 26mm front	76135	42 shore 26mm rear	76155	42 shore 30mm rear
76126	45 shore 26mm front	76136	45 shore 26mm rear	76156	45 shore 30mm rear

TEAM ORION HOT BODIES TIRES

Our new tires are produced using 21st century technology. They have been designed using the latest CAD software and their compounds have been optimized to give the highest grip, lowest friction, and longest lifespan.

Team Orion / HB Tires Feature:

- Innovative tire sidewall design for maximum traction while entering and exiting the corners
- Lightweight belt reinforcement for more acceleration, more stability, and higher cornering speed
- New wide temperature range compounds
- Tires are less sensitive to temperature variations
- Computer controlled manufacturing process assures consistency from one batch to another
- Tire identification on sidewall makes them ideal for spec tire use
- Super high traction with low wear
- Popular 24mm size increases contact surface to maximize acceleration and braking stability
- Meets all international tire rules
- New molding process for maximum traction from the first use - no cutting or grinding necessary!
- Already the choice of National Federation for Modified and Stock races with SPEC tires
- Choice of the EFRA European Championship organizing club (MRTM) for the 2001 European Championships

75000	35A Type 24mm 4 pcs. - 20° C to 65° C track temperature
75001	27B Type 24mm 4 pcs. - 0° C to 45° C track temperature
75002	32C Type 24mm 4 pcs. - 10° C to 55° C track temperature
75003	40D Type 24mm 4 pcs. - 40° C to 75° C track temperature



asphalt tire inserts

Tire inserts are a critical link between car and track. Developed specifically for outdoor racing, Team Orion's molded asphalt tire inserts possess all the vital characteristics necessary for maximum traction, consistency, and drivability.

Team Orion asphalt tire inserts work in any touring car rubber tire and rim combination and are a must have tuning option for the serious racer that demands nothing but the best.

Team Orion's asphalt inserts, due to their excellent performance and consistency, were chosen as the handout insert for the 2002 IFMAR World Championships.



- Lightweight design for increased acceleration
- High density for consistent traction
- Color coded for easy identification
- Resistance to high temperatures

71001	Yellow - Soft
71002	Blue - Medium
71003	Black - Hard

16

FORM/WHEELS/CA GLUE

TEAM ORION JB Foam

Special Team Orion/JB Foam tire inserts are designed for competitive rubber tire, carpet touring car racing. Their lightweight two-piece design allows several tuning options and extreme consistency on high bite carpet tracks. Available for numerous tire and rim combinations, JB Foam tire inserts are used by the best racers in the world and are must have for any serious touring car racer.

Team Orion/JB Foam inserts feature:

- Lightweight design for increased acceleration
- High density for consistent traction
- Color coded for easy identification
- Resistance to high temperatures
- Development and testing by World Champions

70000	HPI - TAMIYA 26mm (Soft)
70001	HPI - TAMIYA 26mm (Medium)
70002	HPI - TAMIYA 26mm (Hard)
70003	HPI - TAMIYA 26mm (Foam)
70011	HPI 24mm (Medium)
70012	HPI 24mm (Hard)
70013	HPI 24mm (Foam)
70101	TAKE OFF - CORALLY 24mm (Medium)
70102	TAKE OFF - CORALLY 24mm (Hard)
70103	TAKE OFF - CORALLY 24mm (Foam)
70201	PROLINE 24mm (Medium)
70202	PROLINE 24mm (Hard)
70203	PROLINE 24mm (Foam)



70300	SCHUMACHER 26mm (Soft)
70301	SCHUMACHER 26mm (Medium)
70302	SCHUMACHER 26mm (Hard)
70303	SCHUMACHER 26mm (Foam)
70401	MEDIAL PRO 24mm (Medium)
70402	MEDIAL PRO 24mm (Hard)
70501	YOKOMO - TAKE OFF - CS 24mm (Medium)
70502	YOKOMO - TAKE OFF - CS 24mm (Hard)
70503	YOKOMO - TAKE OFF - CS 24mm (Foam)
70601	SOREX 24mm (Medium)
70602	SOREX 24mm (Hard)
70603	SOREX 24mm (Foam)

TEAM ORION JB Wheels

These high-tech aerodynamic dish wheels feature:

- Hex Centering Tabs - To insure a perfectly balanced tight fit on all hex drives.
- Rounded Edges - For better balance and to improve the surface contact area of the tire.
- Six Rib Design - An extra rib has been added for strength and stability during high speeds and heavy cornering.
- Soft, Hard and Extra Hard Density - 3 types of densities to maximize traction and increase performance in all conditions.
- Latest High-tech Plastic - to ensure consistent flex and to increase strength.

73000	24mm White 4pc. Soft	73004	24mm Yellow 4pc. Soft
73001	24mm White 4pc. Hard	73005	24mm Yellow 4 pcs. Hard
73002	24mm White 4pc. Extra Hard	73006	24mm Yellow 4pc. Extra Hard
73100	26mm White 4pc. Soft	73104	26mm Yellow 4pc. Soft
73101	26mm White 4pc. Hard	73105	26mm Yellow 4pc. Hard
73102	26mm White 4pc. Extra Hard	73106	26mm Yellow 4pc. Extra Hard



super glue

Team Orion's all new super glue has been designed to withstand the extreme forces present in all forms of R/C modeling.

LOCKDOWN

Lockdown tire glue maintains its grip even under extreme traction conditions as well as during tire "blow-up". By using Lockdown embarrassing moments at the track are eliminated!

42100	Lockdown Tire Glue Thin - 1/2 Fl. oz.
42101	Lockdown Tire Glue Thin - 1 Fl. oz.
42102	Lockdown Tire Glue Thick - 1/2 Fl. oz.
42103	Lockdown Tire Glue Thick - 1 Fl. oz.



QUICKFIX

Quickfix is perfect for general use on model cars, boats, and airplanes and is available in four variations depending upon your needs. Thin works great for light duty jobs. Medium and thick are perfect for tougher jobs and when gap-filling qualities are required.

42110	Quickfix Glue Thin - 1/2 Fl. oz.	42114	Quickfix Glue Thick - 1/2 Fl. oz.
42111	Quickfix Glue Thin - 1 Fl. oz.	42115	Quickfix Glue Thick - 1 Fl. oz.
42112	Quickfix Glue Medium - 1/2 Fl. oz.	42116	Odorless Glue Special Plastic Med. - 1/2 Fl. oz.
42113	Quickfix Glue Medium - 1 Fl. oz.		



BLAST

Impatient? Blast speeds up drying times giving you more time to play.

42120 Accelerator 2 Fl. oz.



D-FUSE

Sticking your fingers together is no fun! By using D-fuse, any glued parts, including fingers, can be pulled apart.

42121 Debonder 1 Fl. oz.



MICRO TIP

Get into those tight areas with better control. Fits all glue sizes and types.

42125 Fine Extension Tips - 3 pc.



Racer's Best Friend



Team Orion is proud to announce that a deal has been signed with Alex Racing to market their innovative personal lap counting system worldwide. Team Orion will offer the newest version of the system, featuring the latest version 4.1 software that contains many improvements over the current version.

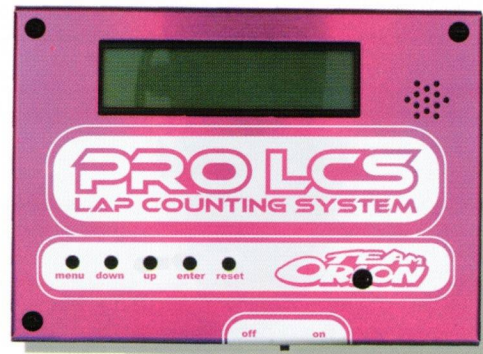
This system is a driver's dream! Non-user friendly handheld or transmitter based stopwatches are no longer necessary. Inaccuracies when the lap button is pressed too early or too late are a thing of the past. A driver only has to concentrate on driving his car, not about when to press the unreachable lap button on his transmitter or finding a friend to take lap times. You can now practice alone!

Just lay the Team Orion Pro Lap Counting System somewhere around the track and every time your vehicle passes by, an infra-red beam emitted by the special infra-red transmitter installed in the car will send information to the device. After the run all laps can be reviewed individually.

The Team Orion Pro LCS is the ultimate tool to adjust your car, electronics, and adapt your driving style to the track conditions.

Features

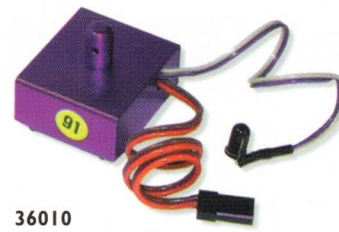
- The lap-counting unit (receiver) uses infra-red (IR) light to communicate with the vehicle-transmitting unit
- Counts lap times within 1/100th of a second
- LCD backlit screen displays best lap, individual lap times, and total race time
- Adjustable target lap time
- Sound signal to indicate start, each lap, best lap, laps under target time, and end of the session
- The counting system can be adjusted to work with any of 100 available Pro LCS transponders



- 36000 PRO Lap Counting System
- 36010 Additional Transponder
- 36020 PC Link + Software
- 36040 Tripod for PRO LCS



36040 Tripod for PRO LCS

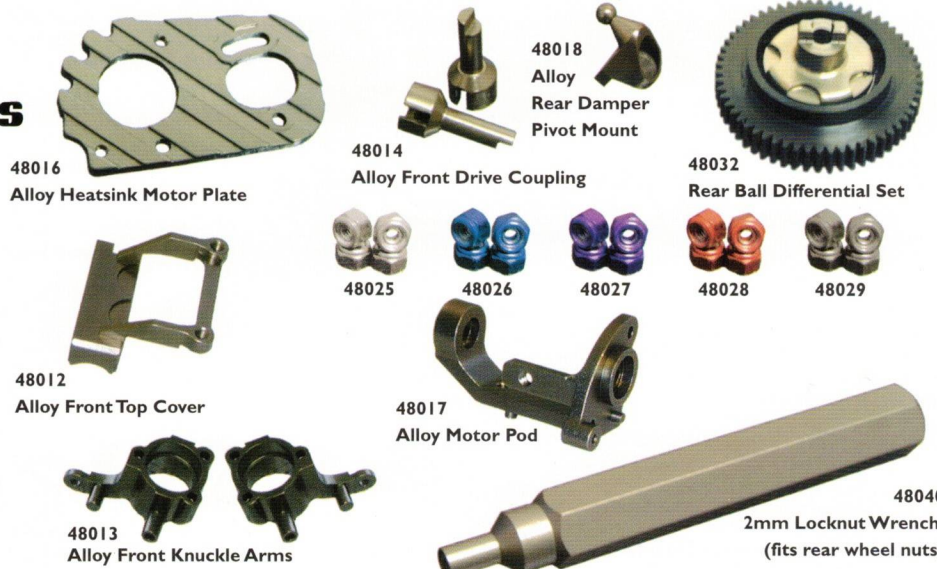


36010 Additional Transponder

MICRO MANIA

micro RS4 accessories

- 48000 Suspension Tuning Kit
- 48001 Tuning Spring Set
- 48002 Damper Fluid Set
- 48020 Alloy Front Body Posts (2pcs.)
- 48021 Alloy Rear Body Posts (2pcs.)
- 48022 Alloy Wing Mount Set - 0°
- 48023 Alloy Wing Mount Set - 5°
- 48024 Alloy Wing Mount Set - 10°
- 48025 Alum. Wheel Nuts - Silver (4 pcs.)
- 48026 Alum. Wheel Nuts - Blue (4 pcs.)
- 48027 Alum. Wheel Nuts - Purple (4 pcs.)
- 48028 Alum. Wheel Nuts - Red (4 pcs.)
- 48029 Alum. Wheel Nuts - Gunmetal (4 pcs.)
- 48033 Alloy Front 1-Way Diff Set
- 48034 High RPM Ball Bearing Set
- 48035 High Traction Tire Set (4 pcs.) Medium Comp.
- 48036 High Traction Tire Set (4 pcs.) Soft Comp.
- 48037 Lightweight Urethane Bumper
- 48038 Miniature Alloy Telescopic Antenna



48016 Alloy Heatsink Motor Plate
48012 Alloy Front Top Cover
48013 Alloy Front Knuckle Arms

48014 Alloy Front Drive Coupling
48018 Alloy Rear Damper Pivot Mount
48025
48026
48027
48017 Alloy Motor Pod

48032 Rear Ball Differential Set
48028
48029

48040 2mm Locknut Wrench (fits rear wheel nuts)

micro pinion gears

- 48003 Micro Pinion Gear Set (plastic)
- 48005 Pro Metal Pinion Gear 8T
- 48006 Pro Metal Pinion Gear 9T
- 48007 Pro Metal Pinion Gear 10T
- 48008 Pro Metal Pinion Gear 11T
- 48009 Pro Metal Pinion Gear 12T
- 48010 Pro Metal Pinion Gear 13T
- 48011 Pro Metal Pinion Gear 14T

FLASH MICRO SPEED CONTROL

In a small vehicle such as the Micro RS4, a small, lightweight ESC is your only true option. Team Orion's Flash features a one touch set-up button, high frequency operation, forward, brakes, and reverse in an ultra thin, 5mm high package that is no larger than a standard steering servo.

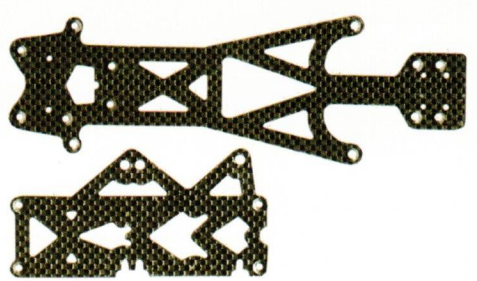


65000 Flash Reversing ESC

micro chassis

The addition of high-tech carbon fiber components to Team Orion's expanding line of products is designed specifically for the increasingly popular HPI Micro RS4. This small yet sophisticated vehicle benefits from the same modifications that increase the performance of its larger 1/10th-scale counterparts.

- 48041 Micro Carbon Fiber Chassis Lower Deck (1.2mm)
- 48042 Micro Carbon Fiber Chassis Upper Deck (1.5mm)



CRF POWER

graphite micro RS4 chassis

Transform your Micro RS4 into a pure racing machine! Installing a Team Orion CRF Power Chassis conversion kit will enhance your cars performance so much that you will not believe that your car is a Micro! Your new race machine will perform like the best 1/10-scale touring cars. Easier setup, increased stability, higher cornering speeds, improved acceleration, and bulletproof construction are some of the advantages of the CRF concept.

Ultra

- 48110 Ultra Chassis Conversion Kit
- 48111 Ultra Chassis
- 48112 Ultra Radio Plate
- 48113 Ultra Rear Plate
- 48114 Ultra Hardware



V-power

- 48140 V-Power Chassis Conversion Kit
- 48141 V-Power Chassis
- 48142 V-Power Radio Plate
- 48143 V-Power Hardware
- 48144 V-Power Rear Pod - low grip
- 48145 V-Power Rear Pod - medium grip
- 48146 V-Power Rear Pod - high grip



T-power

- 48150 T-Power Chassis Conversion Kit
- 48151 T-Power Chassis
- 48152 T-Power Rear Plate
- 48153 T-Power Hardware
- 48154 T-Power Rear Pod - low grip
- 48155 T-Power Rear Pod - medium grip
- 48156 T-Power Rear Pod - high grip



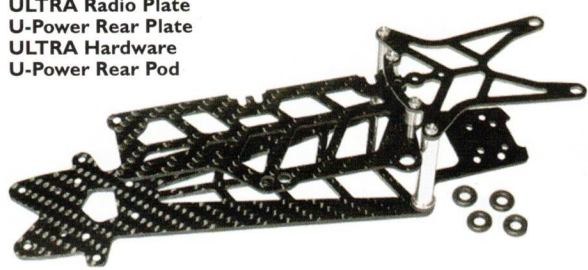
Y-power

- 48120 Y-Power Chassis Conversion Kit
- 48121 Y-Power Chassis
- 48122 Y-Power Rear Plate
- 48123 Y-Power Hardware
- 48124 Y-Power Rear Pod - low grip
- 48125 Y-Power Rear Pod - medium grip
- 48126 Y-Power Rear Pod - high grip



U-power

- 48130 U-Power Chassis Conversion Kit
- 48131 U-Power Chassis
- 48112 ULTRA Radio Plate
- 48133 U-Power Rear Plate
- 48114 ULTRA Hardware
- 48134 U-Power Rear Pod



- 48113 ULTRA Rear Plate For Fan
- 48133 U-Power Rear Plate
- 48122 Y-Power Rear Plate For Fan
- 48152 T-Power Rear Plate



48159 Motor Plate For Big Pinions

- 48124 Y-Power Rear Pod - low grip
- 48125 Y-Power Rear Pod - medium grip
- 48126 Y-Power Rear Pod - high grip

- 48144 V-Power Rear Pod - low grip
- 48145 V-Power Rear Pod - medium grip
- 48146 V-Power Rear Pod - high grip

- 48154 T-Power Rear Pod - low grip
- 48155 T-Power Rear Pod - medium grip
- 48156 T-Power Rear Pod - high grip

MICRO ACCESSORIES

Painted Bodies

Team Orion is proud to introduce pre-painted bodies utilizing Thunder Designs Internal Graphic Sets. For about the same cost as buying a body, paint, and Internal Graphics Set separately, you get a beautiful, hassle free body that is ready to mount and enjoy.

- 52000 Maxx Ford F-350
- 52001 Maxx Ford Excursion



Graphic Paint Mask

We now have the answer for those that want to create their own custom designs and color schemes. Thunder designs vinyl paint masks feature the latest trick designs and are simple to use - just peel, stick, and you are ready to paint your custom creation. Keep your eyes open as more designs are on the way!

- 59500 Burst
- 59501 Skags
- 59502 Gravitron
- 59503 Tribal
- 59504 The Bomb
- 59505 Raid
- 59506 Nutty



THUNDER DESIGNS

Internal Graphic Sets

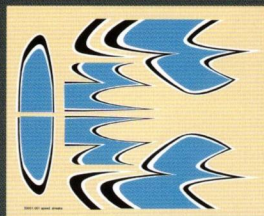
Thunder Designs Internal Graphics Sets are the best way to achieve the custom painted look at a fraction of the cost. Painting your own great looking body is so easy that the one color quickie will become obsolete! With eight different designs in 36 color combinations, there is no longer an excuse for having a bad looking body.

LIGHTSPEED



- 59000 Yellow
- 59001 Blue
- 59002 Flo. Green
- 59003 Red
- 59004 Orange
- 59200 Micro Yellow
- 59201 Micro Blue
- 59202 Micro Red
- 59203 Micro Orange

SPEED STREAKS



- 59005 Blue
- 59006 Purple
- 59007 Flo. Orange
- 59008 Flo. Green
- 59009 Flo. Red
- 59204 Micro Blue
- 59205 Micro Purple
- 59206 Micro Orange
- 59207 Micro Red

The professional look for less!

MAIN EVENT



- 59010 Gold
- 59011 Red
- 59012 Flo. Blue
- 59013 Purple
- 59014 Flo. Green

DRAGON



- 59024 Green
- 59025 Red
- 59030 Orange
- 59031 Blue

FEAR FACTOR



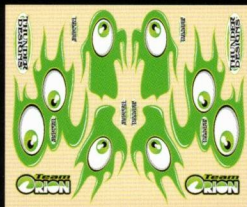
- 59026 Red/Yellow
- 59027 Orange/Grey
- 59034 Blue/Light Blue
- 59035 Green/Yellow

BUBBLES



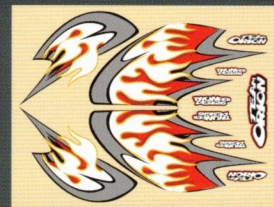
- 59020 Blue
- 59021 Red
- 59028 Green
- 59029 Yellow

EYEBALL



- 59022 Blue
- 59023 Lava
- 59032 Green
- 59033 Orange

VENGEANCE



- 59036 Blue
- 59037 Red
- 59038 Orange
- 59039 Black

TO



- 59040 Orange
- 59041 Red
- 59042 Green
- 59043 Yellow

COMING SOON...

WASP-18

BLACK DEMON
R/C FUEL

SANYO 3300
V-Max RDS



MODIFIED

WWW.TEAM-ORION.COM

Team-Orion Europe

363 Ave de Bernex CH-1233 Bernex Switzerland
Tel: 41-22-757-1528 Fax: 41-22-757-4186
E-mail: europa@team-orion.com

Team Orion USA

22601 La Palma Ave., Suite 103, Yorba Linda, CA 92887 USA
Tel: 714-694-2812 Fax: 714-694-2815
E-mail: usa@team-orion.com

Team Orion Asia

3-22-20 Takaoka-Kita, Hamamatsu, Shizuoka 433-8119 Japan
Tel: 81-53-439-9969 Fax: 81-53-439-0844
E-mail: asia@team-orion.com