



2009 Catalog

***Performance Equipment from the
World Champions' Racing Factory***

Chargers/Dischargers/Cyclers

Cell Master Platinum

Programmable Linear DC Charger/Discharger/Cycler

The Cell Master Platinum is Muchmore's state-of-the-art best for batteries. It's a complete battery management system in a compact, 17-ounce package, as well as Muchmore's most versatile value for the serious competitor. It offers drivers maximum programmability, the competitive edge of CTX charging and the ease of programmed reapeaking.

**120-DAY
LIMITED
WARRANTY**

CTX Charging Technology

With CTX (Controlled Experiment) charging, you can customize a 3-stage charge routine, with different rates, times, temperatures and capacities at each stage. CTX charging also allows you program packs to reapeak up to 3 times... automatically!



**Magnetic
temperature
probe
included!**

Features:

- Programmable, 6-battery memory w/naming
- Simple, 4-button programming
- 3 linear and 3 CTX charge memories
- Muchmore's proprietary algorithm to prevent false peaks
- Black backlit 16 x 2 LCD that automatically displays last charge, discharge and cycling data
- Blue status indicator to signal end of cycle, delays or errors
- Assignable sound cues for start-up, termination and errors
- Auto restart up to 18 hours after power interruption
- AutoStart timer — Set start times up to 18 hours away
- Lockout/Delay Timer (1-30 minutes) to prevent false peaks and control temperature
- Flex charging to recondition NiCds and eliminate memory
- Output jacks simplify hook-up of included temperature probe or optional Battery Heat Sink II, Warming Tray & 12V Cooling Fan Stand
- Dual ball bearing cooling fans, magnetic temperature probe and gold-plated alligator clips
- Input/output reverse voltage, short-circuit, shorted-battery and thermal overload protection

Input Voltage: 10-16V DC
Memory: 6 (3 peak charge + 3 CTX charge)
Cells/Chemistry: 1-8 (NiCd/NiMH); 1-3 (LiPo/Lilon)
Cell Capacity: 10-9990mAh
Charge Cut-off Methods: peak, zero delta peak, capacity & temperature
Charge Rates: 0.1-10.0A (NiCd/NiMH); 1A (LiPo/Lilon)
Trickle Rate: 0.1A (On/Off; NiCd only)
Discharge Rates: 0.1-10.0A (NiCd/NiMH); 1A (LiPo/Lilon)
Discharge Cut-off: 0.1-9.9V (NiCd/NiMH); 0.1-6V (LiPo/Lilon)
Peak Sensitivity: 3-99mV
Flex Charge: 0-9 level (NiCd only)
Temperature Range: 59-158° F (15-70° C)
Dimensions: 5.0 x 4.5 x 1.75 (125 x 115 x 45 mm)
Weight: 17 oz (480 g)

Chargers/Dischargers/Cyclers

Platinum Edition Silent Chargers

Chargers/Dischargers/Cyclers

It's been designed and tested by the world's best drivers — and it's the simple, user-friendly answer to a huge array of battery care needs.

- Prevents false peaking with a proprietary algorithm.
- Automatically sets voltage cut-off
- Includes magnetic temperature probe
- 2 x 16 black backlit LCD shows: total charge and discharge time; peak voltage; capacity (mAh); and elapsed time after charge and discharge cut-off
- Fan-cooled for better performance
- Use with Docking Station to ensure connector compatibility — or with Cell Balancer to create a balancing LiPo charger (both available separately).
- Features reverse voltage (input/output), short circuit, shorted battery & thermal overload protection



DC only Silent Charger (MMRP1003)

Input Voltage: 9-15V (DC-only); 9-15V & 110/240V (AC/DC)
Cells/Chemistry: 1-14 (NiCd/NiMH); 1-6 (LiPo/LiIon)
Cell Capacity: 0-9999mAh
Charge Cut-off Methods: zero delta peak & temperature
Charge Rates: 0.1-6.0A (NiCd/NiMH/LiPo/LiIon)
Trickle Rate: 0.1A (NiCd only)
Discharge Rates: 0.1-6.0A (NiCd/NiMH/LiPo/LiIon);
Discharge Auto Cut-off: 3mV (NiCd); 6mV (NiMH)
Temperature Range: 95-149° F (35-65° C)
Auto-Cycling: 1-3 (adj.)

**120-DAY
LIMITED
WARRANTY**

MRCP1003 (DC-only)

| | |
|------------|-------------------------------------|
| Dimensions | 5.0 x 4.5 x 1.8 (125 x 115 x 45 mm) |
| Weight | 18.3 oz (520 g) |

MRCP1004 (AC/DC)

| | |
|------------|-------------------------------------|
| Dimensions | 5.5 x 5.9 x 2.6 (140 x 150 x 65 mm) |
| Weight | 28.9 oz (820 g) |

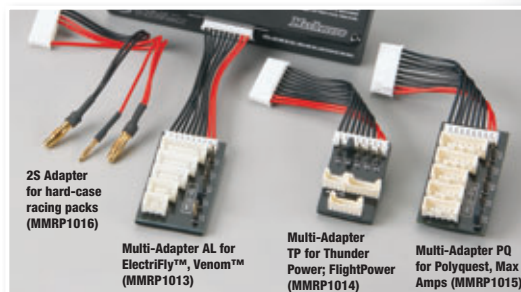
Silent Charger Cell Balancer

Balances 2-6 cell LiPo packs 30% faster than any other balancer!

- LEDs glow during balancing and turn off when balancing is done.
- Compatible with Silent Charger and most popular LiPo chargers.
- Adapters make it easy to balance most brands of LiPo packs. See muchmoreusa.com for details.



The Cell Balancer (MMRP1012) includes the AL Adapter (MMRP1013) for 2-6 cell packs from Electrify™, Imax, Grayson Power, Mega Power and more!



For additional applications, see www.muchmoreusa.com

Silent Charger Docking Station

- Combines adapters for all battery connectors into a single, compact plug-in!
- Compatible with today's most popular connectors: universal, banana, Tx, Rx — even Deans® Ultra Plug® connectors
- Includes a special charge port just for glow starters!



Dischargers, Equalizers and Power Supplies

CTX-D2 PLATINUM

Programmable Discharger & Personal Matcher

Created by Muchmore R&D staff and team drivers, the CTX-D2 turns discharging into a programmable precision tool for competition. It's NiCd/NiMH-friendly and great for pack cycling or cell matching, because discharging can be customized to your specs. All three modes let you adjust discharging to pack capacity, and with the linear and pulse modes, you can set voltage cut-off as well. It displays voltage readings for each cell during discharging, measures internal resistance two minutes after discharging and displays both until you disconnect the power.

- Simple, 4-key operation
- 2 x 16 black backlit LCD w/white lettering for easy reference
- 2 IC-controlled ball bearing fans for heat control
- Features polarity markings for easy hook-up
- Protected against reverse-voltage and static electricity
- 120-day limited warranty



MMRP1020

Input Voltage: 9-16V DC
Cell Size/Chemistry: sub-C NiCd & NiMH
of Cells: 1-, 3-, 4- & 6 cells; 3-, 4- and 6-cell packs.
Cell Capacity: 0-9990 mAh
Discharge Modes/Rates: 5A linear; 30A pulse; dead short
Discharge Cut-off: 0-1.20V linear/pulse; 0.0V dead short
Dimensions: 7.7 x 4.1 x 2.4 in (196 x 103 x 62 mm)
Weight: 23.1 oz (655 g)

M. Rheinhard Edition
(MMRP1021)

Dr.4K

Digital Equalizing/Conditioning Discharger

With the Dr. 4K, reverse voltage is never a problem, because cells can't be hooked up wrong. The Bi-Polar system automatically adapts to the way packs and cells are inserted, eliminating the possibility of damage.

All by itself, the Dr.4K is a fast, affordable equalizer for NiMHs and NiCds in a compact 1-pound package. Add 12-14V DC power, and it's a post-equalizing/pre-charging cell conditioner, too.

- A stand-alone equalizer — or a DC-powered conditioner
- Push-button easy to operate
- Auto cut-off feature prevents overdischarging
- Blue status LEDs
- Selectable 1, 15 or 30-minute conditioning times
- Adjusts voltage cut-off to conditioning time
- 1-1/2" x 1-1/2" (30 x 30 mm) cooling fan
- 120-day limited warranty



MMRP1023

Input Voltage: 12-14V DC
Cell Size/Chemistry: sub-C NiCd & NiMH
of Cells: 1-6 cells; 1-6 cell packs
Cell Capacity: 0-4600mAh
Discharge Modes/Rate: 5A
Discharge Cut-off: 0.9V (Equalizing); 0.0, 0.1 or 0.3V (Conditioning)
Dimensions: 6.3 x 3.7 x 2.0 in (161 x 94 x 52 mm)
Weight: 16.0 oz (454 g)

**Protected by the
Bi-Polar Battery
System!**

AAAD for Mini-Z

Individual "AAA" Discharging System

Pocket-sized AAAD is "AAA" discharging at its smallest and simplest. Insert up to 4 cells, according to the handy polarity markings on both sides. Each cell has an LED that glows during discharge — and stops when the auto cut-off kicks in. 120-day limited warranty.



Also available in:
 ■ Blue (MMRP1033)

MMRP1032 (Black)

Cell Size/Chemistry: "AAA"; NiCd & NiMH
of Cells: 1-4
Cell Capacity: n/a
Discharge rate: 500 mAh
Cut-off Voltage: 0.9V
Dimensions: 2.2 x 3.0 x 1.0 in (55 x 75 x 25 mm)
Weight: 3.1 oz (88 g)

Dischargers, Equalizers and Power Supplies

Cell Equalizer

Equalizing cell voltages ensures a maximum charge and the Bi-Polar System guarantees that cells can't be hooked up wrong. A red LED by each cell glows until the 0.9V cut-off is reached. 120-day limited warranty.



MMRP1034

Cell Size/Chemistry: sub-C NiCd & NiMH
Cells: 1-6
Cell Capacity: n/a
Discharge Rate: 3A
Cut-off Voltage: 0.9V
Dimensions: 5.4 x 3.5 x 1.1 in (138 x 90 x 28 mm)
Weight: 4.6 oz (129 g)

Pack Equalizer

Offers the single hook-up ease of a pack, and the results of a single-cell discharger. The faceplate shows correct cell polarity. Red LEDs go out as each cell reaches the 0.9V cut-off. The blue LED glows when the whole pack is done.



MMRP1040

Cell Size/Chemistry: sub-C NiCd & NiMH
of cells: 6-cell stick pack only
Cell Capacity: n/a
Discharge Rate: 3A
Cut-off Voltage: 0.9V
Dimensions: 6.1 x 3.5 x 1.0 in (155 x 90 x 26 mm)
Weight: 5.7 oz (163 g)

**120-DAY
LIMITED
WARRANTY**

Power Master World Edition 2 Power Supply

Ideal for tire truers, starters, comm lathes, chargers and more, the Power Master WE2 turns on with a touch and automatically adapts to the voltage used. In the pits, it delivers a clean, quiet 24 amps of DC current hour after hour and stays cool with the help of a temperature-controlled fan. Includes power cable, output terminals for European CB-01 & CB-02 connectors and alligator clips. Short-circuit and current overload-protected. Optional **Power Master Terminal Extension Kit** includes nickel-plated posts for added convenience and top efficiency. 120-day limited warranty.



MMRP1050



Power Master Terminal Extension Kit (MMRP1061)

Voltage Input: 100-250V AC
Voltage Output: 12-16V DC
Constant Current: 24A
Peak Current: 30A (0.5 sec)
Dimensions: 5.3 x 5.7 x 2.0 in (135 x 145 x 50 mm)
Weight: 26.7 oz (756 g)

Also available in:
■ Blue (MMRP1051)

Power Master Mini

The 8A Mini is just half the size and weight of the WE2, but offers many of the same features: on/off switch; auto-selected power source; blue status LED; cooling fan; power cable; output terminals for CB-01 and CB-02 connectors; and big alligator clips. Also included: current overload, short circuit and temperature protection. 120-day limited warranty.



MMRP1055

Voltage Input: 80-250V AC
Voltage Output: 11.5-13.8V DC
Constant Current: 6.5A (80-110V); 8.0A (200-240V)
Peak Current: 15A (0.5 sec)
Dimensions: 6.3 x 2.8 x 1.8 in (160 x 70 x 45 mm)
Weight: 13.2 oz (375 g)

Also available in:
■ Blue (MMRP1056)

Power Station 5-outlet Multi Distributor

The Power Station makes multi-tasking possible by providing five outlets for power supply output. Two are always hot and capable of handling up to 20A each. The other three are 10A outlets with on/off switches and blue status LEDs. Includes 19.7" (50 cm) silicone-wire leads with alligator clips. 120-day limited warranty.



MMRP1060



Battery Equipment

Cell Conditioner

Simple conditioning for 6-cell NiCd and NiMH packs

Incredibly compact — incredibly easy to use. If you can hook up a pack and use a rocker switch, you can achieve perfect power levels for maximum performance.

- An easy, inexpensive way to get the most out of stick packs
- Features a 1A discharge rate — great for RTR vehicles
- Includes standard connector and a 120-day limited warranty

Also available in:

- Blue (MMRP1025)



MMRP1024

Dimensions: 2.6 x 1.9 x 0.92 in
(66 x 49 x 24 mm)
Weight: 2.0 oz (58 g)

Battery Heat Sink

Heat buildup can damage cells during charging or discharging, especially in warm weather. The Battery Heat Sink provides peace of mind by balancing pack temperatures, for one less thing to worry about.

- Six high-speed fans help dissipate excessive heat
- Works with simple, one-touch control
- Can be used with the Cell Master, Silent Charger or a power supply such as the Power Master
- 120-day limited warranty

Also available in:

- Blue (MMRC2101)



MMRC2100

Dimensions: 6.5 x 1.9 x 3.2 in (165 x 49 x 80 mm)
Weight: 11.5 oz (325 g)

Battery Warming Tray

Charging a cold battery can cause it to lose some of its punch — that's why you'll want the Warming Tray! It pre-heats packs before charging, combating crystallization that can affect internal resistance.

- Works with NiMH and LiPo batteries
- A thermal wire inside the unit maintains the temperature that you set
- Can be used with the Cell Master or Silent Charger
- 120-day limited warranty

Also available in:

- Blue (MMRC2105)



MMRC2104

Dimensions: 5.9 x 2.4 x 1.2 in (150 x 60 x 31 mm)
Weight: 3.5 oz (100 g)

12V Cooling Stand

A multi-purpose must-have for beating the heat! Position over the charger to pull heat away from the unit during charging; after running, place batteries or motors on the fan grills for direct cooling.

- Lightweight and easy to use
- 12V alligator clips included for use with a DC power supply, along with a connector for the Cell Master

Also available in:

- Blue (MMRC2111)



MMRC2110

Pack Building Supplies

Silver Wire

- Ideal for re-wiring speed controls and motors, or where ultra-low resistance connections are needed. (90 cm = 35.4 in)

MMRC2140 12 AWG Blue 90 cm
MMRC2141 12 AWG Black 90 cm
MMRC2142 12 AWG Red 90 cm
MMRC2143 12 AWG Set 180 cm
MMRC2148 16 AWG Blue 90 cm
MMRC2149 16 AWG Black 90 cm
MMRC2150 16 AWG Red 90 cm
MMRC2152 16 AWG Set 180 cm
MMRC2153 18 AWG Black 90 cm
MMRC2154 18 AWG Red 90 cm

MMRC2155 18 AWG Set 180 cm
MMRC2156 20 AWG Black 90 cm
MMRC2157 20 AWG Red 90 cm
MMRC2158 20 AWG Set 180 cm



MMRC2152

Battery Bars

- Made of gold or ultra low-resistance silver. Tabs are stamped positive or negative

MMRC2115 Mini 2/3AA (10)
MMRC2130 SMH Type Silver (8)
MMRC2131 SMH Type Gold (8)
MMRC2132 Premium Silver (8)
MMRC2133 Premium Gold (8)
MMRC2134 SMH Type Silver (20)
MMRC2135 SMH Type Gold (20)
MMRC2136 Premium Silver (20)
MMRC2137 Premium Gold (20)
MMRC2138 Premium L Type End Silver (10)



MMRC2133



MMRC2138

Other Battery Accessories

- **Protective Film** is strong, waterproof and adhesive, to keep battery data safe
- Durable, clear **Heat Shrink Tubes** are 2" x 1.5"



MMRC2122

MMRC2122 Matched Battery Data Protective Film (30)
MMRC2120 Stick Pack Heat Shrink Tube (5)
MMRC2121 Stick Pack Heat Shrink Tube (20)

Battery Packs, Regulators & Connectors

LiPo (Lithium-Polymer) Packs

- Matched cells ensure maximum voltage and capacity
- Low/high voltage circuit protects against overcharging and overdischarging
- Receiver packs feature a 10C discharge rate and universal connector



MMRC2034
11.1V 2000mAh w/lead
Application: CTX-W Tire Warmer
Dimensions: 3.3 x 1.7 x 0.8 in (84 x 43 x 21 mm)



MMRC2032
7.4V 250mAh w/univ
Application: receiver; 1/12 scale
Dimensions: 1.40 x 0.94 x 0.59 in (35 x 24 x 15 mm)



MMRC2033
7.4V 300mAh w/univ & switch
Application: receiver; 1/12 scale
Dimensions: 1.33 x 0.75 x 0.74 in (34 x 19 x 19 mm)



MMRC2035
7.4V 800mAh w/univ
Application: receiver; nitro vehicles
Dimensions: 2.2 x 1.2 x 0.8 in (56 x 30 x 14 mm)



MMRC2036
7.4V 1500mAh w/univ
Application: receiver; nitro vehicles
Dimensions: 3.50 x 0.59 x 1.20 in (90 x 15 x 30 mm)



MMRC2037
11.1V 2100mAh w/Futaba J
Application: transmitters; Futaba® 3PJ, 3PK & KO-Propo®
Dimensions: 3.50 x 2.00 x 0.25 in (89 x 51 x 6 mm)



MMRC2038
11.1V 2100mAh Sanwa Tx
Application: transmitters; Sanwa®, Airtronics® M8 & M11 & Propo
Dimensions: 3.43 x 1.96 x 0.54 in (86 x 50 x 14 mm)



MMRC2039
11.1V 2500mAh
Application: transmitter; KO-Propo, Helios, Mars & Sanwa
Dimensions: 4.0 x 1.0 x 1.0 in (102 x 25 x 25 mm)

NiMH (Nickel-Metal Hydride) Receiver Packs



MMRC2020
6V 1500mAh 2/3A Flat w/Fut J
Dimensions: 3.30 x 1.20 x 0.69 in (84 x 32 x 18 mm)



MMRC2021
6V 1500mAh 2/3A Hump w/Fut J
Dimensions: 2.0 x 1.2 x 1.3 in (50 x 31 x 32 mm)

7.4V LiPo Regulators



CTX 3A LiPo Rx

- Ensure constant voltage through the end of a battery's usable charge
- Super Linear eliminates noise and radio glitching
- LiPo Voltage Indicator uses LED color to communicate output voltage status

MMRC2040 CTX 3A LiPo Rx
MMRC2041 CTX 5A LiPo Rx
MMRC2042 CTX 7A LiPo Rx
MMRC2043 Super Linear w/Voltage Indicator Connection
MMRC2044 LiPo Voltage Indicator

Battery Accessories



MMRC2116 7.2V Connector Tamiya Type Set
MMRC2123 7.2V Connector Male w/Wire
MMRC2124 7.2V Connector Female w/Wire



MMRC2125 Banana Gold Connector Set Red/Black



MMRC2127 Euro Connector S Male (2) Female (10)



MMRC2170 Battery End Bar Jig Blue
■ Aluminum jig holds any battery end bar securely for easy soldering



Tires & Accessories

CTX-W Platinum

Programmable, IC-Controlled DC Tire Warmer

Gain traction indoors or out without wasting valuable battery power and fuel, thanks to this easy-to-use tire warmer! IC control ensures accurate temperatures every time, while the state-of-the-art LCD screen helps you set temps, track lap times and more!

Also available in:

- Blue (MMRC2261)



MMRC2260 (Black)

- Quick, 2-step and 3-step warming modes
- Warms all four tires to the same temperature – or fronts and rears to independent temps of your choice
- “Black” LCD w/adjustable backlighting/contrast
- LCD Displays: Fahrenheit/Celsius temperature readings; lap times
- Five different audible tones for disconnection, delay, low input voltage and more
- Includes 12V input cable and black alumite tire cups compatible with 1/10 scale RP, Take off and Tamiya Slick tires. Other cups sold separately. See below for more information.
- Functions as a stand-alone warmer but can also be used with Tire Cookers (MMRC2265)
- 120-day limited warranty

Voltage Input: 7.2V-15.0V
Heat Range: 68°-212° F (20°-100° C)
Modes: Quick, 2-step and 3-step
Programmable: Temperatures and lap timer
Dimensions: 6.4 x 4.6 x 2.2 in (163 x 118 x 57 mm)
Weight: 1.4 lb (620 g)

11.1V 2000mAh Matched LiPo Pack

- Make your CTX-W cordless with this LiPo power supply!



MMRC2034

Dimensions: 3.3 x 1.7 x 0.8 in (84 x 43 x 21 mm)

Tire Warmer Cups

Lightweight anodized alumite cups quickly and evenly conduct heat to your touring car tires. Available in small (S) and large (L) to fit the most popular brands of tires.

- Small cups are ideal for RP, Take off and Tamiya slick tires
- Large cups are perfect for Sweep™ and Sorex tires
- Temperature sensor holes simplify warmer controller set-up
- Includes standard Tamiya connector
- 120-day limited warranty

Also available in:

- Blue (Small) 7.2-12V input ((MMRC2274)
- Black (Large) 7.2-12V input (MMRC2276)
- Blue (Small) for CTX-W (MMRC2275)
- Black (Large) for CTX-W (MMRC2277)



Black (Large) for CTX-W (MMRC2277)

Tire Warmer Controller 3080 EVO

Get the most out of your tire warmer with this convenient, easy-to-use controller! Just place close to your warmer's hot wire and set the controls.

- Compatible with all types of tire warmers
- Compact case w/cooling vents
- Relay switch operation
- Easy-to-adjust temperature control
- 120-day limited warranty

Voltage Input: 7.2V-14.0V
Heat Range: 86°-176° F (30°-80° C)
Dimensions: 2.6 x 1.9 x 0.9 in (65 x 49 x 22 mm)
Weight: 2.8 oz (80 g)



MMRC2270

Tire Cookers

Reduce prep time and keep tires warm with this compact tray! Black alumite cups evenly distribute heat to all four tires, baking the compound onto each tire for exceptional performance. Includes 4-pin connector which fits directly onto the CTX-W Platinum.

10.0V-16.0V input (when connected to CTX-W)
Dimensions: 5.9 x 5.9 x 1.9 in (151 x 151 x 48 mm)
Cup Diameter: 2.5" (65 mm)
Cup Depth: 1.3" (34 mm)
Weight: 9.1 oz (260 g)



MMRC2265

Tires & Accessories

Power Truer

Rubber Tire Sander

Why do laps, when you can prep new tires or resurface old ones with the ultra-compact Power Truer? Ideal for use with all rubber tire compounds, it takes just seconds to use, but provides top-notch results. Just mount the tire on the centering bolt and turn on the power. A light touch with steel wool, sandpaper or file helps smooth away seams, rescuff surfaces or remove built-up track residue or tire compound. A top performer with either the Power Master World Edition (MMRP1050) or Power Master Mini (MMRP1055) Power Supply. 120-day limited warranty. Anodized aluminum case.

Also available in:

■ Blue (MMRC2281)



MMRC2280

Dimensions: 3.8 x 2.8 x 2.9 in (96 x 70 x 73 mm)

Weight: 24.1 oz (682 g)

Requires: 12V DC power; 6A (min) current

True Balance

1/10 Scale Tire Balancer

A perfectly balanced tire rotates truer, wears less and lasts longer — and Muchmore makes it easy to achieve. The secret: super-strength magnets that suspend the tire, adapters and centering shaft in mid-air *without* touching the anodized aluminum uprights. This virtually eliminates friction, and ensures that the heavy spot will rotate straight to the bottom. Adding self-adhesive **Tire Balancing Tape** (MMRC2294; available separately) directly opposite the heavy spot counterbalances the weight, resulting in perfect balance. Special two-way adapters ensure top results with all metric and SAE 1/10 scale tires. Tire Balancing Tape includes two 1.1" x 8.8" (27 x 225 mm) lengths of peel & stick weight.

Dimensions: 3.9 x 3.1 x 3.1 (100 x 80 x 80 mm)

Weight: 5 oz (142 g)

Includes: Base w/magnetic shaft holder & two-way adapters



MMRC2291

Sweep Tires

Mounted 1/10 Scale Rubber Touring Tires

A spec tire is a spec tire, right? Wrong. These have been tested by world champions, including Andy Moore, Atsushi Hara and Marc Rheinard. They were also chosen as *the* spec tire to run at the 2008 Worlds, America's On-Road Nats and Muchmore's own 13.5 Stock TC Nats. Why? Because they're affordable for all types of racing. Because they deliver consistently exceptional grip and durability on carpet and asphalt. And because they're available for a wide range of track temps and conditions. **Sweep** tires measure 2.55" x 0.97" (64.7 x 24.7 mm). Low-profile **Sweep LHS** tires measure 2.48" x 0.94" (63 x 24 mm). Both include inserts and arrive mounted on 0.94" (24 mm) white rims. Gluing required.

MMRC2215 24° (4)

MMRC2216 28° (4)

MMRC2217 32° (4)

MMRC2218 36° (4)

MMRC2219 40° (4)

MMRC2220 LHS 28° (4)

MMRC2221 LHS 32° (4)



MMRC2216

*The spec tire run
'round the world!'*

Sweep Type A Aero Dish Wheels

1/10 Scale Touring

Designed for solid support in high-speed touring action, and molded from plastic for lightness and rigidity. Wheels measure 2.03" x 0.94" (52 x 24 mm), with an 0.47" (12 mm) hex. Available in white (shown) or yellow (MMRC2248).



White Type A (4; MMRC2249)

Sweep Tire Stockers

1/10 Scale Touring

Tire Stockers keep sets together for compact storage and quick retrieval.

Tires slide onto the 4.3" (110 mm) metal rod — rubbery "top hat" retainers on both ends hold them in place. Set of 3.



Black (3; MMRC2306)

MMRC2305 Blue (3)

MMRC2307 Red (3)



Tires & Motor Equipment

Absolute Rubber Tires

The absolute best choice for all levels of competition!

From exact lines on the straightaways to precision and stability in the corners, Absolute Tires deliver optimum performance that can make the race-winning difference. Long-term development and rigorous testing have gone into making these tires the choice of champions!

- Designed to excel on both asphalt and carpet surfaces
- Exceptional grip and durability, combines with maximum braking potential
- Tested by World Champions Andy Moore, Marc Rheinard and Atsushi Hara!

MMRC2200 24° (4)
MMRC2201 28° (4)
MMRC2203 32° (4)
MMRC2204 36° (4)
MMRC2205 40° (4)
MMRC2246 24 mm Dish White Type A (4)
MMRC2247 24 mm Dish White Type B (4)



MMRC2200

MMRC2246

Matched Molded Inserts

Pair up Absolute Tires with Matched Molded Inserts for a winning combination! Tested by top drivers, they're precisely matched at the factory for exceptional consistency on the track.

- Compound is designed to stay true longer and stand up to extreme temperature changes
- Choose the compound that's right for your kind of racing; Red inserts (MMRC2243) have been developed specifically for carpet tracks



MMRC2240 Aqua/Medium
MMRC2241 Yellow/Medium-Hard
MMRC2242 Green/Hard
MMRC2243 Red/Carpet
MMRC2244 Pink/Soft
MMRC2245 Orange/Medium-Soft

Comm Lathe Light

- Directs light where you need it to make commutator cutting jobs easier and more accurate
- Can be used with all types of R/C comm lathe machines



MMRC3023 (Black Edition)

MMRC3024 (Blue Edition)

Motor Mate

- Keeps your motor from rolling away while in the pit area
- Made of CNC aluminum, with cutouts for 2 bushings
- Two extra rubber O-rings are included; replacement O-rings are also available

MMRC3074 O-Ring 22 mm for Motor Motor (3)



MMRC3070 (Black Edition)



MMRC3071 (Blue Edition)



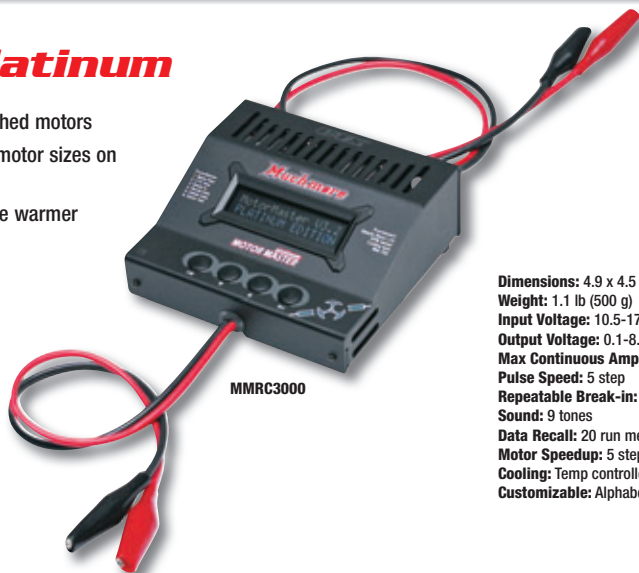
MMRC3072 (Silver Edition)

Motor Equipment & Tools

Motor Master Platinum

- Compact dyno for testing and breaking in brushed motors
- Recalls performance data for a wide range of motor sizes on the backlit LCD screen
- Can also be used to power a comm lathe or tire warmer

**120-DAY
LIMITED
WARRANTY**



MMRC3000

Dimensions: 4.9 x 4.5 x 1.9 in (125 x 114 x 47 mm)
Weight: 1.1 lb (500 g)
Input Voltage: 10.5-17.0V
Output Voltage: 0.1-8.0V
Max Continuous Amps: 25A
Pulse Speed: 5 step
Repeatable Break-in: 99 min Motor Run/Delay
Sound: 9 tones
Data Recall: 20 run memory
Motor Speedup: 5 step starting speed
Cooling: Temp controlled internal fan
Customizable: Alphabet, Numeric & Symbols

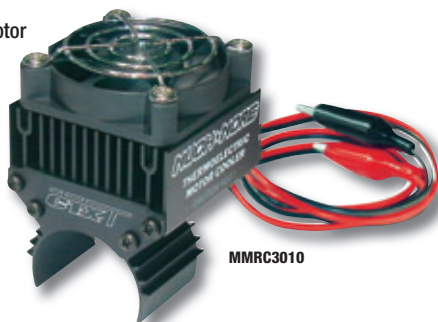
Thermoelectric Motor Cooler

- Dissipates heat out of any metal, allowing R/C motors to run more efficiently
- Capable of reducing motor temperatures to near sub-zero levels!

**120-DAY
LIMITED
WARRANTY**

MMRC3010 Black
MMRC3011 Blue

Dimensions: 2.0 x 2.4 x 2.8 in
(52 x 58 x 72 mm)

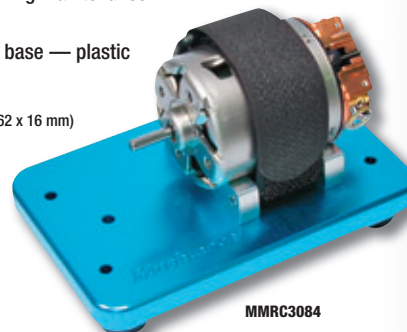


MMRC3010

Motor Maintenance/Break-In Stand

- Holds motors securely during maintenance and break-in
- Blue-anodized aluminum base — plastic carrying case included

Dimensions: 3.9 x 2.4 x 0.6 in (99 x 62 x 16 mm)



MMRC3084

Aluminum Tools

Brush Cutting Set

- Includes 8 cutting bits, 8 set screws, and plastic case

MMRC3093



Timing Brush Setter for Laydown Brushes

- With normal 0.0 mm and 0.2 mm/0.3 mm altered timing + cut slot

MMRC3102



Brush Setter for Round Motor Brushes

- For standard or laydown brushes

MMRC3094



Brush Setter Stand

- Holds motors stable for using Brush Setter parts — includes hardware, motor leads and more

MMRC3103



Timing Brush Setter for Stand Up Brushes

- With 0.3 mm, 0.4 mm and 0.5 mm altered timing + cut slot

MMRC3101



Brush Holder Re-Setter for Normal Laydown Brushes

- Re-sets standard and laydown brushes for perfect alignment

MMRC3104



Motor Brush Holder Adjustment Tool

- Allows independent +/- fine-tuning of motor brush holders

MMRC3100



Motor Accessories & Maintenance Tools

Micro Comm Stick Tool Set

Restores comms to like-new condition!

- **Complete Set** (MMRC3090) includes cleaning and polishing sticks, turning tool and cloth
- **Refill Set** (MMRC3091) with cleaning and polishing sticks is available separately



MMRC3090

Break-in/Cooling Fans

- Blue nylon **Fan** offers simple, low-cost cooling
- Blue-anodized aluminum **Cooling Fan 2** serves as break-in load and additional cooling capacity

MMRC3110 Cooling Fan 2
MMRC3111 Propeller



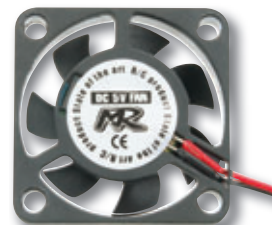
MMRC3110

Motor & ESC Cooling Fans

Boost performance through better cooling!

- Ready for instant installation
- Bearing-equipped for longer life and less wear
- Available in 30 x 30 mm (1.2" x 1.2") or ultra-compact 25 x 25 mm (0.98" x 0.98") models
- High-volume airflow of **Ultra RPM** versions help extend motor life
- All include black micro 2-pin connector. Mounting hardware required
- **Endbell Fan Posts** for Team CheckPoint®, Reedy and Yokomo motors include two mounting screws

MMRC3040 30 x 30
MMRC3041 25 x 25
MMRC3042 Ultra RPM 25 x 25
MMRC3043 Ultra RPM 30 x 30
MMRC3126 Motor Endbell Fan Posts Type 1 (2)



MMRC3040



MMRC3126

Armature/Rotor Storage

Damage prevention and performance protection!

- **Tubes** feature hard plastic sides and soft nylon caps
- Available alone, or with cushioning **Rubber Mounts**
- **Storage Box** offers fitted foam protection for up to 6 motors and 4 brushless rotors. Includes 4 motor tubes. 12.2"L x 6.1"W x 2.2"H (310 x 154 x 55 mm)

MMRP3140 Tube Clear (5)
MMRP3141 Pro Tube w/Rubber Mounts (5)
MMRP3142 Rubber Mounts (6)
MMRP3143 Storage Box w/Arm Tubes (6)



MMRP3143



MMRP3140

Maintenance Stands

Compact stands add height, reduce clutter

- Lifts vehicles above work surface for easy tire changes, repairs and maintenance
- Lightweight, anodized aluminum construction
- Grip strips hold chassis in place
- Rubber feet prevent slipping and protect work surfaces
- **Touring Stand** measures 6.7"L x 4.1"W x 1.2" H (170 x 105 x 30 mm)
- **Buggy Stand** (MMRC3298) measures 6.3"L x 4.3"W x 2.4"H (160 x 109 x 60 mm)



Touring Stand (MMRC3295)

Brushless Motor Bearing Puller

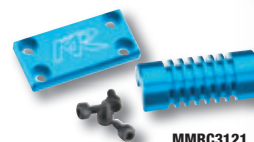
- For easy removal and perfectly aligned installation
- Ideal for all Novak, Team Orion® and LRP brushless motors
- Tough aluminum/steel construction
- Just 4.4" (112 mm) long — fits in a pit bag or pocket



MMRC3115

Wire Heat Sink

- The 6-gram performance improvement!
- Absorbs and radiates away harmful heat
- Simple "strip & clamp" installation
- Includes heat sink, plate and hardware



MMRC3121

Diodes & Capacitors

Eliminate "noise" to prevent glitching and control loss!

MMRC3050 Premium Diode Unit 33A Motor
MMRC3051 Premium Diode Unit 55A Motor
MMRC3060 Noise Filter Clamp Charger (2)
MMRC3062 Receiver Noise Capacitor
MMRC3066 Super Power Capacitor Type C KO
MMRC3067 Super Power Capacitor Type D KO

Brushes

- Choose **Laydown** for stock motors, **Stand up** for modifieds
- Available in pairs or 10-packs

MMRC3080 Stand up (2)
MMRC3081 Stand up (10)
MMRC3082 Laydown (2)
MMRC3083 Laydown (10)

Maintenance and Set-up Tools

Race Helper

Digital Alarm Clock/ Thermometer/Humidistat

A compact tuning tool. Displays digitally precise time, temperature and humidity at all times — and sounds an alarm at times you select. Registers 10-99% humidity and -86 to 122° F (-30 to 50° C) temperatures. Simple 1-button mode/memory/adjustment operation. Requires (1) "AAA" alkaline battery (1.2-1.5V).

Dimensions: 3.9 x 3.9 x 0.75 in (101 x 101 x 21.4 mm)

Also available in:

- Black (MMRC3280)
- Purple (MMRC3282)



MMRC3281

True Weight 2

Digital Scale

Every gram counts and True Weight 2 weighs items up to 500 g (17.6 oz) with 0.1 g accuracy. On and Tare buttons get it ready; a mode button gives you the choice of gram, ounce, or troy weights. Remove cover, place item on the 3.0 x 2.6" (73 x 65 mm) stainless steel tray and the weight comes up on a big, 5-digit, blue-backlit LCD. Works at temperatures from 50-86° F (10-30° C) and turns off after 3 minutes to conserve power. Includes storage bag, cover and (2) "AAA" alkaline batteries.

MMRC3284

Dimensions: 4.5 x 3.0 x 0.79 in (114 x 76 x 20 mm)
Weight: 4.1 oz (116 g)



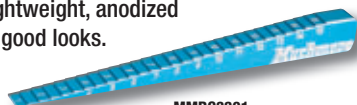
Luxury Aluminum

Ride Height Gauge

Just 5.7" (147 mm) long, this pocket-sized tool offers a simple way to set ride heights from 1-15 mm. Made of lightweight, anodized aluminum for long-lasting good looks.

Also available in:

- Black (MMRC3300)
- Purple (MMRC3302)



MMRC3301

Luxury Aluminum

Parts Tray

At just 4.5" x 3.1", it's easy to slide in a pit bag and a huge help in the pits. Three compartments make organizing easier; rubber feet prevent slipping and spills. Dimensions: 4.5 x 3.1 in (115 x 78 mm).



MMRC3201

Droop Gauge and

Support Blocks

Fine-tuning droop in 1/10 and 1/8 scale vehicles made easy. Offers 15 steps ranging from 0.60" to 1.6" (10 to 30 mm) in height. Includes gauge and 2 support blocks.



MMRC3306

Polycarbonate

Screw Set Rear Wing

Inexpensive and indispensable 31-piece assortment includes 10 ea. of nylon screws, nuts and washers.

MMRC3420

Dispenser Bottles

Holds up to 0.68 fl. oz. (20 ml) of lubes and oils ready for instant, pinpoint application. Metal cap prevents leaks and mess.

Also available in:

- Purple (MMRC3522)

MMRC3521



Muchmore CA & Accessories

Ideal for fast, tight bonds. Choose MMRC3510 for rubber tires or MMRC3511 for foams. 0.71 oz (20 g) bottle. Package of 3 fine extensions (MMRC3520) available separately.

MMRC3510



Muchmore Liquid Lubes

Less friction = more performance, whether you're talking about bushings, bearings or commutators. Clear, soft plastic bottles offer an easy grip and drop-at-a-time dispensing accuracy through fine-point tips. Caps help keep spills down and pit tables clean. 0.68 fl oz (20 ml) each.

Spin Lube Bushings (MMRC3505)
Spin Lube Bearings (MMRC3506)
Lathe Cutting Fluid (MMRC3507)
Comm Drops (MMRC3508)



MMRC3505



MMRC3506



MMRC3507



MMRC3508



Tire Conditioners, Traction Compounds & Additives

Blue Sap & Red Sap Tire Conditioners

- Specially formulated to deliver ideal tire performance with minimal odor
- Blue Sap increases tire traction, while Red Sap provides less traction
- 1.7 fl. oz. (50 ml) bottles

MMRC2300 Blue Sap
MMRC2301 Red Sap



Sweep Tire Cleaner/Refresher and Traction Compound

- Get a grip on carpet and asphalt tracks with Sweep Tire Traction Compounds!
- Z1 (Red) is designed for high-traction conditions, while Z2 (Blue) is ideal for low traction applications
- Green-colored Cleaner/Refresher renews tire grip to its original condition
- 2 fl. oz. (59.1 ml) bottles



MMRC2302 (Sweep Tire Cleaner/Refresher)



MMRC2303 (Sweep Tire Traction Z1-High Traction)



MMRC2304 (Sweep Tire Traction Z2-Low Traction)

V Made Acute Tire Traction

- Simply apply Acute Tire Traction onto rubber tires for the race-winning edge
- Two different formulas, both extensively tested by Muchmore R&D
- 1.7 fl. oz. (50 ml) bottles



MMRC3527 (Asphalt)



MMRC3528 (Carpet)

Speed Cleaner 3 Motor Spray

- Multi-purpose...perfect for cleaning engines, tires, motors, bodies and more!
- A two-way nozzle lets you spray with the nozzle folded or unfolded
- Charged with CO₂, so it won't leave moisture
- 13.5 fl. oz. (400 ml)



MMRC3500

Shock Slime, Thrust Grease, Joint Grease and Diff Grease

- Applying Shock Slime to O-rings and shock shafts prevents oil leakage for better performance and longer shock life
- Highly viscous Thrust Grease provides smooth, precise rotation for thrust bearings
- The anti-wear formulas of Joint Grease and V Made Joint Lube minimize friction on universal shafts, dog bones and joint cups
- Enjoy consistent differential performance under any weather conditions with Diff Grease

MMRC3515 Shock Slime 0.176 oz (5 g)
MMRC3516 Thrust Grease 0.176 oz (5 g)
MMRC3517 Joint Grease 0.176 oz (5 g)
MMRC3518 Diff Grease Ball Diff 0.176 oz (5 g)
MMRC3523 V Made Shock Slime 0.169 fl.oz. (5 cc)
MMRC3524 V Made Thrust Grease 0.169 fl. oz. (5 cc)
MMRC3525 V Made Ball Diff Grease 0.169 fl. oz. (5 cc)
MMRC3526 V Made Joint Lube 0.161 fl. oz. (18 ml)



MMRC3523



MMRC3524



MMRC3525



MMRC3526



MMRC3515



MMRC3516



MMRC3517



MMRC3518

Accessories

Silicone Shock Oil

- 100% pure silicone shock oil won't thin in hot weather or thicken in cold conditions
- 1.7 fl. oz. (50 ml) bottles

MMRC3530 #100WT
MMRC3531 #150WT
MMRC3532 #200WT
MMRC3533 #250WT
MMRC3534 #300WT
MMRC3535 #350WT
MMRC3536 #400WT
MMRC3537 #450WT

MMRC3538 #500WT
MMRC3539 #550WT
MMRC3540 #600WT
MMRC3541 #650WT
MMRC3542 #700WT
MMRC3543 #750WT
MMRC3544 #800WT



Hand Reamers

- Anodized aluminum handle with steel cross piece for secure grip
- Replaceable steel shaft

MMRQ1005 3.05 mm Double Line
MMRQ1006 2.63 mm Single Line



MMRQ1005

Ball End Reamer

- Rounded steel reamer smooths 4.7-5 mm dia. plastic ball ends



MMRQ1007

Hand Tap

- Steel tap creates threads in 3 mm holes



MMRR1000

Muffler Spring Tool

- Curved steel tip easily grips small muffler springs



MMRR1005

Chrome Turnbuckle Wrenches

- Hard-chrome construction with black anodized handles
- Labeled for easy size identification

MMRR1009 3.0 mm Black
MMRR1010 3.0 mm Blue
MMRR1011 3.5 mm Black
MMRR1012 4.0 mm Purple
MMRR1013 4.0 mm Black



MMRR1009

MMRR1010

Box Wrench

- Steel tip with anodized aluminum handle
- 4.5 mm hex size



MMRR1014

Promotional Items

- Show your winning colors with genuine Muchmore racing apparel!
- Trifold brochure spotlights Muchmore USA electronics

MMRZ0303 T-Shirt Red Large
MMRZ0304 T-Shirt Red X-Large
MMRZ0305 T-Shirt Red XX-Large
MMRZ2009 Product Line Brochure



Muchmore Event Banners



- Fiber-reinforced vinyl resists tearing
- Corner brass eyelets for hanging

MMRZ9010 3 x 4 ft (914 x 1219 mm)
MMRZ9011 3 x 8 ft (914 x 2438 mm)





Muchmore: We Live for Racing!

Everyone knows that at Muchmore, we live for racing – but what you may not know is *why* we're known as the World Champions' Racing Factory. Ever since we started the company in 1997, we've used World Champion drivers – including Atsushi Hara, Marc Rheinard and Andy Moore – to develop and test our products. Their expertise and years of experience combined with today's best technology make Muchmore products the best choices for racers of all levels!

***Muchmore products are backed by our
top-notch service department, which
can be reached at:***

Hobby Services, 3002 N. Apollo Drive, Suite 1,
Champaign, Illinois 61822 U.S.A.

Web site: hobbyservices.com

For technical support, you can contact us by e-mail at carsupport@hobbico.com,
by telephone at (217) 398-8970, or by fax at (217) 398-7721.

muchmoreusa.com