



RC Terminology

**BEC** (Battery Elimination Circuit) – The BEC is used to eliminate the need for a receiver pack to power the radio system. On most electric vehicles this is located in the electronic speed control (ESC), but can also be a stand-alone device.

**Calibration** – Also called ESC setup. It is the process used to match the transmitter throttle, brake and neutral to the ESC.

**Current** – Refers to the power flow from the battery to the ESC and motor when used in the RC vehicle environment. Typically this is measured in ampere or amp.

**Deadband** – This refers to the amount of travel (movement) on the transmitter trigger before the vehicle is requesting the ESC to move the vehicle forward or backwards. It is an advanced adjustment used by experienced drivers.

**ESC** (Electronic Speed Control) – The ESC is what translates the signals past from the transmitter trigger through the receiver into commands that reach the motor to signal forward or reverse, acceleration or braking.

**LiPo** – A lithium polymer battery’s abbreviation indicating the chemistry used in these rechargeable batteries. These batteries require special attention by the user and are only recommended for the most experienced of users.

**mAh** – The milliampere hour abbreviation, which represents the capacity of a battery pack. The higher this rating the longer the run time of each charge.

**Neutral Position** – Referring to the transmitter when at rest, meaning the throttle trigger and steering have no input. When you turn the transmitter on, set it to the side while turning the car on, the transmitter will be in a neutral state.

**NiMH** – The abbreviation for nickel-metal hydride rechargeable batteries. These have replaced the use of NiCd batteries as the battery of choice in RC vehicles.

**Profiles** – The MSC 12RB has two (2) preset profiles. Forward Only and Forward and Reverse profile. The Forward only profile can be selected for racing purposes. The Forward/Reverse profile is great for running in your neighborhood.

**Receiver** – A device mounted into the vehicle that receives and decodes a signal sent by a transmitter. Servos, ESC and other devices are plugged into the receiver.

**Resistance** – As used here refers to the power loss from the battery to the ESC and motor. Typically this is measured in Ohms. Too much resistance between the battery, ESC and motor can result in low performance and run time.

**Servo** – An electronic device connected to the receiver used to actuate steering control of the vehicle.

**Transmitter** – Is the device held in your hand that relays steering and throttle/brake requests made to the receiver.

**Trim** – This is a setting used on the transmitter to make fine adjustments to the steering or throttle/brake trigger. For steering you would use the trim to make the adjustment for the vehicle to drive straight without adding steering input to the transmitter.

**Thermal Shutdown** – Refers to the ESC operating temperature. The MSC 12RB ESC monitors its internal temperature and will automatically prevent the ESC from delivering power to the motor, preventing damage due to overheating the ESC’s electronics.

Replacement Parts List

| Part Number | Description                              | Price   |
|-------------|------------------------------------------|---------|
| LOS4112     | 48 Pitch Pinion Gear, 12T .....          | \$4.99  |
| LOSA4006    | Antenna Tube and Setscrew .....          | \$1.50  |
| LOSA4015    | Battery Foam.....                        | \$2.50  |
| LOSA5224    | Silicone Shock Oil, 30 wt, 2 oz.....     | \$3.99  |
| LOSA6903    | Sealed BB, 3/16 x 3/8 (2) .....          | \$7.00  |
| LOSA8200    | Body Clips .....                         | \$1.25  |
| LOSB0802    | 27MHz AM Transmitter.....                | \$37.79 |
| LOSB0810    | MRX15 27MHz AM Rx: HR.....               | \$24.99 |
| LOSB0818    | MSX Digital Servo.....                   | \$16.99 |
| LOSB2005    | Steering Blocks .....                    | \$4.99  |
| LOSB2006    | Fr Caster Blocks .....                   | \$4.99  |
| LOSB2008    | Upper Shock Mount Bushings.....          | \$3.99  |
| LOSB2011    | 3mm E-Clips .....                        | \$1.99  |
| LOSB2015    | Ball Cup Set .....                       | \$17.99 |
| LOSB2024    | Front Bumper Assy & Skid Plate: HR ..... | \$7.99  |
| LOSB2025    | Front Nose Plate & Spacer: HR .....      | \$7.99  |
| LOSB2026    | Camber/Steering Link Set : HR .....      | \$14.99 |
| LOSB2027    | Front Suspension Arm : HR .....          | \$6.99  |
| LOSB2028    | Rear Suspension Arm : HR.....            | \$8.99  |
| LOSB2029    | Rear Bumper Assy & Skid Plate: HR.....   | \$8.99  |
| LOSB2030    | Ball Cup Set: HR.....                    | \$11.99 |
| LOSB2031    | Front Axles: HR .....                    | \$9.99  |
| LOSB2032    | Screw Set: HR .....                      | \$15.99 |
| LOSB2107    | Rear Hubs.....                           | \$5.99  |
| LOSB2126    | Dogbones .....                           | \$7.99  |
| LOSB2117    | Fr/R Pivot Block Set.....                | \$4.99  |
| LOSB2162    | Front Shock Tower : HR.....              | \$10.99 |
| LOSB2169    | Rear Shock Tower : HR .....              | \$11.99 |
| LOSB2238    | Battery Strap : HR .....                 | \$5.99  |
| LOSB2239    | Motor Plate: HR .....                    | \$9.99  |
| LOSB2240    | Front/Rear Suspension Brace: HR.....     | \$9.99  |
| LOSB2241    | Steering Brace: Slider, HRL .....        | \$5.99  |
| LOSB2283    | Chassis : HR.....                        | \$29.99 |
| LOSB2284    | Ladder Brace Assembly: HR.....           | \$11.99 |
| LOSB2285    | Transmission Brace Set : HR.....         | \$5.99  |
| LOSB2357    | Servo Saver Metal Parts.....             | \$11.99 |
| LOSB2358    | Servo Saver Plastic Parts: HR .....      | \$5.99  |
| LOSB2452    | Fr/R Body Mount Set: HR .....            | \$6.99  |
| LOSB2736    | Nut Set: HR.....                         | \$7.99  |
| LOSB2824    | Shock Body, Long (Pr): HR .....          | \$17.99 |
| LOSB2844    | Long Shock Shaft : HR.....               | \$7.99  |
| LOSB2902    | Shock Rod Ends .....                     | \$4.99  |
| LOSB2903    | Shock Rebuild Kit .....                  | \$6.99  |
| LOSB2956    | Long Shock Spring - Blue: HR.....        | \$7.99  |
| LOSB3001    | Transmission Case.....                   | \$4.99  |
| LOSB3002    | Bearing Holder .....                     | \$4.99  |
| LOSB3004    | Transmission Gear Bag Set.....           | \$8.99  |
| LOSB3005    | Slipper Plates (2) .....                 | \$11.99 |
| LOSB3006    | Transmission Main Shaft.....             | \$7.99  |
| LOSB3007    | 8x12x3.5mm Ball Bearing (2) .....        | \$4.99  |



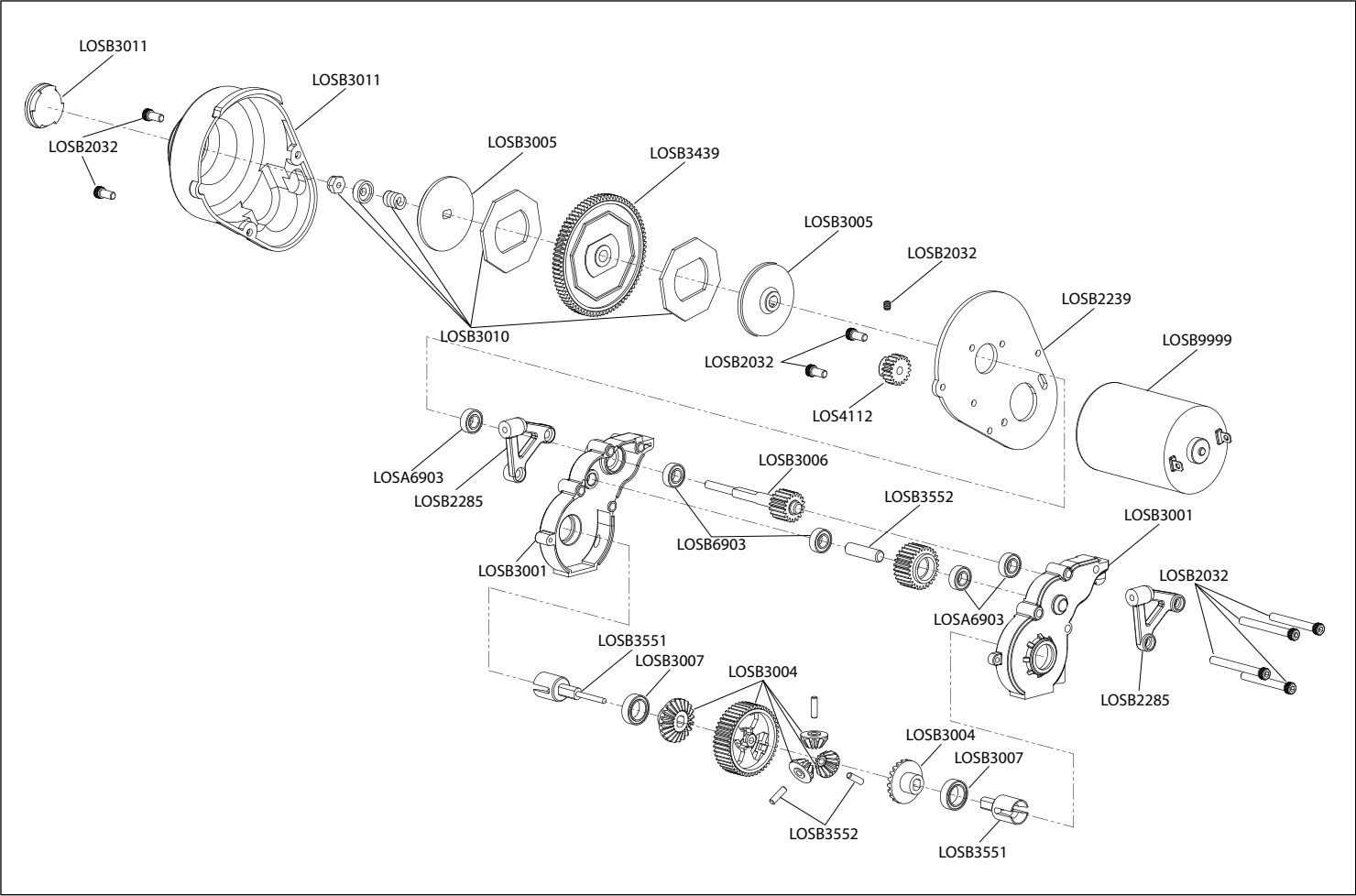
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| LOSB3008 | 3x6x2.5mm Ball Bearing (2).....                      | \$4.99  |
| LOSB3010 | Slipper Rebuild Kit .....                            | \$5.99  |
| LOSB3011 | Gear Cover and Cap: HR.....                          | \$4.99  |
| LOSB3437 | Spur Gear 86T .....                                  | \$3.99  |
| LOSB3438 | Spur Gear 88T .....                                  | \$3.99  |
| LOSB3439 | Spur Gear 90T .....                                  | \$3.99  |
| LOSB3549 | Rear Axle Drive Pins & Spacers .....                 | \$4.99  |
| LOSB3550 | Rear Axles (2) .....                                 | \$9.99  |
| LOSB3551 | Diff Outdrive Set.....                               | \$9.99  |
| LOSB3552 | Diff Pin/Idler Shaft Set .....                       | \$4.99  |
| LOSB4107 | Hinge Pin Set (2) .....                              | \$7.99  |
| LOSB7041 | Front Wheel, Chrome (Pr): HR .....                   | \$16.99 |
| LOSB7051 | Rear Wheel, Chrome (Pr): HR.....                     | \$16.99 |
| LOSB7212 | Losi HIGHroller Front/Rear Tire (Pr): HR.....        | \$15.99 |
| LOSB7441 | Fr Whl, Mounted, Chrome (Pr): HR.....                | \$29.99 |
| LOSB7451 | Rear Wheel, Mounted, Chrome, (Pr): HR.....           | \$29.99 |
| LOSB8006 | HIGHRoller Painted Body, Metallic Blue .....         | \$39.99 |
| LOSB8007 | HIGHRoller Painted Body, Burnt Metallic Orange ..... | \$39.99 |
| LOSB9520 | MSC12RB 12T Fwd/Rev ESC.....                         | \$54.99 |
| LOSB9999 | 1/10 LM-32K Motor.....                               | \$19.99 |

Optional Parts for the 1/10 HIGHroller

| Part Number | Description                          | Price  |
|-------------|--------------------------------------|--------|
| LOS4112     | 48 Pitch Pinion Gear, 12T .....      | \$4.99 |
| LOS4113     | 48 Pitch Pinion Gear, 13T .....      | \$4.99 |
| LOS4114     | 48 Pitch Pinion Gear, 14T .....      | \$4.99 |
| LOS4115     | 48 Pitch Pinion Gear, 15T .....      | \$4.99 |
| LOS4116     | 48 Pitch Pinion Gear, 16T .....      | \$4.99 |
| LOS4117     | 48 Pitch Pinion Gear, 17T .....      | \$4.99 |
| LOS4118     | 48 Pitch Pinion Gear, 18T .....      | \$4.99 |
| LOS4119     | 48 Pitch Pinion Gear, 19T .....      | \$4.99 |
| LOS4120     | 48 Pitch Pinion Gear, 20T .....      | \$4.99 |
| LOS4121     | 48 Pitch Pinion Gear, 21T .....      | \$4.99 |
| LOS4122     | 48 Pitch Pinion Gear, 22T .....      | \$4.99 |
| LOS4123     | 48 Pitch Pinion Gear, 23T .....      | \$4.99 |
| LOS4124     | 48 Pitch Pinion Gear, 24T .....      | \$4.99 |
| LOS4125     | 48 Pitch Pinion Gear, 25T .....      | \$4.99 |
| LOS4126     | 48 Pitch Pinion Gear, 26T .....      | \$4.99 |
| LOS4127     | 48 Pitch Pinion Gear, 27T .....      | \$4.99 |
| LOS4128     | 48 Pitch Pinion Gear, 28T .....      | \$4.99 |
| LOSA4015    | Foam Battery, Block.....             | \$2.50 |
| LOSA5221    | Silicone Shock Oil, 15Wt, 2 oz ..... | \$3.99 |
| LOSA5222    | Silicone Shock Oil, 20Wt, 2 oz ..... | \$3.99 |
| LOSA5223    | Silicone Shock Oil, 25Wt, 2 oz ..... | \$3.99 |
| LOSA5224    | Silicone Shock Oil, 30Wt, 2 oz ..... | \$3.99 |
| LOSA5225    | Silicone Shock Oil, 35Wt, 2 oz ..... | \$3.99 |
| LOSA5226    | Silicone Shock Oil, 40Wt, 2 oz ..... | \$3.99 |
| LOSA5227    | Silicone Shock Oil, 50Wt, 2 oz ..... | \$3.99 |
| LOSA5228    | Silicone Shock Oil, 60Wt, 2 oz ..... | \$3.99 |
| LOSA5229    | Silicone Shock Oil, 70Wt, 2 oz ..... | \$3.99 |
| LOSA5230    | Silicone Shock Oil, 80Wt, 2 oz ..... | \$3.99 |
| LOSA5231    | Silicone Shock Oil, 90Wt, 2 oz ..... | \$3.99 |



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|-----------|-----------------------------------------------------|---------|
| LOSA5232  | Silicone Shock Oil, 100Wt, 2 oz.....                | \$3.99  |
| LOSA5240  | Shock Oil 6pk 20, 25, 30, 35, 40, 45Wt. ....        | \$19.99 |
| LOSA5241  | Shock Oil 6pk 50, 60, 70, 80, 90, 100 Wt. ....      | \$19.99 |
| LOSB2017  | Steering Block Set, Aluminum.....                   | \$27.99 |
| LOSB2018  | Caster Block Set, Aluminum .....                    | \$27.99 |
| LOSB2024C | Front Bumper Assy & Skid Plate - Chrome: HR.....    | \$13.99 |
| LOSB2029C | Rear Bumper Assy & Skid Plate - Chrome: HR .....    | \$15.99 |
| LOSB2109  | Rear Hub Set, Aluminum .....                        | \$27.99 |
| LOSB2118  | Aluminum Front Pivot: 10th Slider/Lifted Truck..... | \$17.99 |
| LOSB2119  | Aluminum Rear Pivot: 10th Slider/Lifted Truck ..... | \$19.99 |
| LOSB2284C | Ladder Brace Assembly - Chrome: HR .....            | \$21.99 |
| LOSB2452C | Fr/R Body Mounts - Chrome: HR .....                 | \$11.99 |
| LOSB2957  | Long Shock Spring - Black: HR.....                  | \$7.99  |
| LOSB7042  | Front Wheel, Black Chrome (Pr): HR.....             | \$16.99 |
| LOSB7052  | Rear Wheel, Black Chrome (Pr): HR.....              | \$16.99 |
| LOSB7442  | Front Wheel, Mounted Black Chrome (Pr): HR .....    | \$29.99 |
| LOSB7452  | Rear Wheel, Mounted, Black Chrome (Pr): HR.....     | \$29.99 |
| LOSB8006  | Body, Metallic Blue : HR.....                       | \$39.99 |
| LOSB8007  | Body, Burnt Metallic Orange : HR .....              | \$39.99 |
| LOSB8008  | Body, Clear : HR.....                               | \$30.99 |
| LOSB9900  | 7.2V 3600mAh NiMH 6-Cell Flat.....                  | \$55.99 |
| LOSB9997  | LED Light Kit: HR.....                              | \$29.99 |
| LOSB5168  | Transmission Brace Set, Aluminum .....              | \$21.99 |







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