

Reference in the second second

NN3 6AX



IMPORTANT SAFETY NOTES

- We strongly recommend that anyone driving RC cars, or organising events, should obtain third party liability insurance. In the UK this can be done by joining the BRCA. www.brca.org
- This product is not suitable for children under the age of 14, without the direct supervision of a responsible adult.
- Select an area for assembly that is away from the reach of small children.
- The parts in this kit are small and can be swallowed by children causing choking and possible internal injuries.
- Exercise care when using hand tools and sharp instruments during assembly.
- Carefully read all manufacturers warnings and cautions for any additional items used in the construction.
- In line with our policy of continuous development the exact details of the kit may vary.
- DO NOT use this car on public roads or in places where it can interfere with traffic, people or animals.
- Always check the operation of the radio with the wheels off the ground, before using the car.
- Make sure the radio and car batteries are fully charged before use.
- Disconnect and remove the battery from the car when not in use.
- Always store and charge LiPo batteries in a fireproof container.
- DO NOT put fingers or any objects inside rotating or moving parts as this may cause injury.
- Make sure the charger is correctly set for the type of battery you are using.
- Incorrect charging may cause a fire.
- Insulate all exposed electrical wiring. Exposed or damaged wires can cause short circuits and fire.
- The motor and speed controller can become hot during use. DO NOT touch them immediately after using your car as this may cause injury.

































































Schumacher

COUGAR GEAR CHART Standard Transmission

Motor Limit 17.5 Brushless

Minimum Tooth Sum 108T - Maximum Tooth Sum 120T - Internal Ratio 2.43:1

| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| U229 | 95 | 13.57 | 12.82 | 12.14 | 11.54 | 10.99 | 10.49 | 10.03 | 9.61 | 9.23 | | | | | | | | | |
| U230 | 93 | 13.29 | 12.55 | 11.89 | 11.29 | 10.76 | 10.27 | 9.82 | 9.41 | 9.03 | 8.69 | 8.37 | | | | | | | |
| U231 | 89 | | | 11.38 | 10.81 | 10.29 | 9.82 | 9.40 | 9.01 | 8.65 | 8.31 | 8.01 | 7.72 | 7.45 | 7.20 | 6.97 | | | |
| U8308 | 86 | | | | | | 9.49 | 9.08 | 8.70 | 8.35 | 8.03 | 7.74 | 7.46 | 7.20 | 6.96 | 6.74 | 6.53 | 6.33 | 6.14 |

COUGAR GEAR CHART U7600 Pro Transmission Conversion

Motor Limit 6.5 Brushless

Minimum Tooth Sum 108T - Maximum Tooth Sum 120T - Internal Ratio 2.07:1

| | | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| U4163 | 95 | 11.55 | 10.91 | 10.33 | 9.82 | 9.35 | 8.92 | 8.54 | 8.18 | 7.85 | | | | | | | | | |
| U7154 | 89 | | | 9.68 | 9.20 | 8.76 | 8.36 | 8.00 | 7.66 | 7.36 | 7.07 | 6.81 | 6.57 | 6.34 | 6.13 | 5.93 | | | |
| U3351 | 83 | | | | | | | | | 6.86 | 6.60 | 6.35 | 6.13 | 5.91 | 5.72 | 5.53 | 5.36 | 5.20 | 5.05 |
| U3350 | 82 | | | | | | | | | | 6.52 | 6.28 | 6.05 | 5.84 | 5.65 | 5.47 | 5.30 | 5.14 | 4.98 |
| U3348 | 80 | | | | | | | | | | | | 5.90 | 5.70 | 5.51 | 5.33 | 5.17 | 5.01 | 4.86 |
| U7616 | 78 | | | | | | | | | | | | | | 5.37 | 5.20 | 5.04 | 4.88 | 4.74 |

OPTION PARTS

U7600 - Option Pro Transmission Conversion



U7315 - Titanium Turnbuckle - 35mm - Silver - pr U7316 - Titanium Turnbuckle - 39mm - Silver - pr

U7317 - Titanium Turnbuckle - 45mm - Silver - pr

U8302 - C/F Rear Shock Mount - Cougar Classic



U7419 - Titanium M4 x 20 Grub Screw (pr)



U7424 - Alloy Lightweight LiPo Nut - (pr)







CR290 - 1/12 Servo Saver 23T Sanwa/KO CR291 - 1/12 Servo Saver 25T Futaba

U8298 - CF Front Shock Mount - Cougar Classic



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U7245 - Alloy Eccentric (pr)

U8299 - Ball Raced Steering Set - Cougar Classic

SPARES LISTS

Chassis Parts

| U119 | Aerial Tube - Pack 4 |
|-------|---|
| U122 | Velcro 1/2metre x 16mm |
| U1042 | Aerial Mount - Universal |
| U4765 | Lipo Post Nut 2pcs - Off Road |
| U4778 | LiPo Stops 4pcs - Off Road |
| U7045 | Lipo Posts Standard - KD,KC,L1/EVO,XLS,TC,LD/2,ST |
| U7046 | Lipo Posts Short - KD,KC,L1/EVO,LD/2,ST |
| U7546 | Servo Mounts (pr) - TOP CAT |
| U7547 | Alloy Chassis - TOP CAT |
| U7549 | Wing Mount Mouldings - TOP CAT |
| U7550 | Shorty LiPo Strap S2 - TOP CAT |
| U7580 | Rear Bulkhead - TOP CAT |
| U7588 | Rear Motor Guard - TOP CAT |
| U8291 | Front Bulkhead - Cougar Classic |
| U8292 | Steering and Radius Arm - Cougar Classic |
| U8293 | Manual - Cougar Classic |
| U8304 | Servo Saver Set - Cougar Classic |
| U8306 | Centre Track Rod - Cougar Classic |

Bodys & Decals

| U5147 | Bodyshell + Decals + Window Mask - Cougar Classic |
|-------|---|
| U5148 | Wing and Endplates - Cougar Classic |
| U8294 | Decals - Cougar Classic (pk3) |

Transmission

| U7142 | Integrator Axle - XLS,TC |
|-------|---|
| U7144 | Drive Shaft Mouldings 8 pcs - XLS,TC |
| U7152 | UJ Assembly pr - XLS,TC |
| U7158 | Integrator Washer pr - XLS,TC |
| U7187 | Eccentrics pr - XLS,TC |
| U7188 | Bearing Housings pr - XLS,TC |
| U7205 | Front Washer Carrier pr - XLS,TC |
| U7216 | Thrust Race F1/8 x 5/16 x 9/64 Grooved - XLS,TC |
| U7240 | Pro Diff Rebuild Kit - XLS,TC |
| U7571 | Front Axles (pr) - TOP CAT |
| U7586 | Belt 72T 8.0 Wide (Kit) - TOP CAT |
| U7587 | Layshaft (Kit) - TOP CAT |
| U7589 | Gear Cover - TOP CAT |
| U7590 | Alloy Layshaft Bush - TOP CAT |
| U7591 | Alloy Motor Plate - TOP CAT |
| U7592 | Alloy Cover Plate - TOP CAT |
| U7593 | Transmission Housing - TOP CAT |
| U7594 | Layshaft Pulley Set (Kit) - TOP CAT |
| U7595 | Diff Pulley Set (Kit) - TOP CAT |
| U7596 | Front Wheel Bearing Retainers (pr) - TOP CAT |
| U8173 | Disc Spring 6 x 3.2 x 0.3mm pk8 - TC,XLS |
| U8279 | Front Hub Carrier - Cougar Classic (pr) |
| U8308 | 86T Whisper Spur Gear Black |

Bearings & Balls

| U729 | Chrome Steel Balls 3mm pk36-Fusion 28 turbo,XLS,T |
|-------|---|
| U2698 | Ball Bearing - 5x10x4 Red Seal - (pr) |
| U2699 | Ball Bearing - 10x15x4 Red Seal - (pr) |
| U3075 | Ball Bearing - 4x8x3mm Red Seal - (pr) |
| U3136 | Ball Bearing - 5x8x2.5 - Shield (pr) |
| U3871 | Ball Bearing - 5x9x3 Red Seal - (pr) |
| U4084 | Ball Bearing - 6x12x4 Red Seal - (pr) |
| U4946 | Pro Ball Bearing 5 x 10 x 4 sealed - pr |
| U7088 | Ball Bearing 5x10x4 Red Seal FL - (pr) |
| U7155 | Bearing 8 x 16 x 5 Black Seal (pr) |
| U7328 | Ball Bearing - 5 x 11 x 4 Red Seal - (pr) |
| U7725 | Pro-Ball Bearing 10x15x4 Sealed - (pr) |
| U7726 | Pro-Ball Bearing 6x12x4 Sealed - (pr) |
| U7729 | Pro-Ball Bearing 5x9x3 Sealed - (pr) |
| U7730 | Pro-Ball Bearing 4x8x3 Sealed - (pr) |
| U7997 | Ceramic Ball Bearing 6 x 12 x 4 (pr) |
| | |

Hardware

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| U1247 | SPEED PACK - Wing Mount 'O' Ring |
|-------|--|
| U1539 | SPEED PACK - Self Tap Csk Hd |
| U1543 | SPEED PACK - M3 Csk Hd |
| U1547 | SPEED PACK - M3 Nuts |
| U1548 | SPEED PACK - M3 Washers |
| U1551 | SPEED PACK - E Clips -2 x 8pcs |
| U1633 | SPEED PACK - Small Pins (pk) |
| U1960 | SPEED PACK - O Rings; Various |
| U2885 | Steering Levers Bush Set - Havoc |
| U3986 | Suspension O'ring Tuning Set - SS/GT |
| U4222 | Turnbuckle Adjuster HTT - 39mm - pr |
| U4223 | Turnbuckle Adjuster HTT - 45mm - pr |
| U4298 | Turnbuckle HT - 35mm - pr |
| U4651 | SPEED PACK M3x10 Grub Screws (10pcs) |
| U4775 | Pivot Ball 5.5mm - (4pcs) |
| U4987 | SPEED PACK Needle Roller 1.5x11.8 (pk8) |
| U7090 | SPEED PACK - M4x20 Grub Screw (pk4) |
| U7150 | Pivot Ball 4 pcs - XLS,TC |
| U7165 | SPEED PACK M3 x 16 SS Cap Hd (pk10) |
| U7166 | SPEED PACK M3 x 20 SS Cap Hd (pk10) |
| U7209 | Ball Sockets 4 pcs - XLS,TC |
| U7219 | SPEED PACK M3 x 8 Pan Hd Pozi (pk10) |
| U7220 | SPEED PACK M3 x 10 Pan Hd Pozi (pk10) |
| U7223 | SPEED PACK M3 X 12 Grub (pk10) |
| U7226 | SPEED PACK No 2 x 3/16 Pan Hd (pk10) |
| U7227 | SPEED PACK No 2 x 1/2 Pan Hd (pk10) |
| U7229 | SPEED PACK No 4 x 3/8 Pan Hd (pk10) |
| U7230 | SPEED PACK No 4 x 1/2 Pan Hd (pk10) |
| U7231 | SPEED PACK No 4 x 3/4 Pan Hd (pk10) |
| U7275 | SPEED PACK M3 x 8 SS Cap Hd (pk10) |
| U7332 | SPEED PACK WASHERS Dia 3.5 (pk15) |
| U7563 | SPEED PACK - M3x16 Pan Pozi (pk10) |
| U7557 | SPEED PACK - 2mm Circlips (pk10) |
| U7558 | SPEED PACK - Double Sided Tape Pads (pk10) |
| U7259 | SPEED PACK M3 x 8 Csk Pozi (pk10) |
| U7559 | SPEED PACK - M3x10 SS Cap Hd (pk10) |
| U7562 | SPEED PACK - M3 x10 Csk Pozi (pk10) |
| U7563 | SPEED PACK - M3x16 Pan Pozi (pk10) |
| U7564 | SPEED PACK - M3x20 Pan Pozi (pk10) |
| U7566 | SPEED PACK - No2x3/8 Pan Pozi (pk10) |
| U7707 | M3 Steel Washers (pk10) |
| U7709 | M3 Black Alloy Washers 0.75mm (pk10) |
| U7711 | M3 Black Alloy Washers 2.00mm (pk10) |
| U8272 | SPEED PACK No 2 x 1/4 Pan Hd (pk10) |



SPARES LISTS

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Suspension

| U322 | Lower Front Susp Plate - 2WD |
|-------|---|
| U748 | Front Susp. Pivot Set - 2WD |
| U1129 | Rear Pivot Blocks 1/8 |
| U1425 | Pivot Pin; grooved 44mmx1/8 |
| U2330 | Wishbone; Yoke and Strg Block; Big 6 (pr) |
| U3067 | Yoke C Hub pr - Rascal,Riot |
| U3103 | Pivot Pin; grooved 23mm 1/8 pr - Rascal,Riot,TC |
| U7367 | Rod End Ball Wide & Socket pr - L1/EVO,ST |
| U7431 | Rod End Socket (Dia 5.5mm) (pk4) |
| U7567 | Grooved Pins 45mm (pr) - TOP CAT |
| U7568 | Rear Wishbone LWB (pr) - TOP CAT |
| U7572 | Rear Shock Mount - TOP CAT |
| U7578 | Rear Hub Carriers (pr) - TOP CAT |
| U7584 | Grooved Pins 2.0 x 34.0 (pr) - TOP CAT |
| U7585 | Rear Shock Mount Support S2 - TOP CAT |
| U776 | Top Bkt; Yokes;C.Tr. Rod - 2WD |
| U8295 | Front Shock Mount F/G - Cougar |
| U8305 | Front Wishbones - Cougar Classic (pr) |

Shock Absorbers

| 0613 | Spring Stop and Spacer Mouldings (pr) |
|-------|--|
| U835 | Vari Shock Seal Pack (pr) |
| U3937 | Shock Mouldings |
| U4362 | Small Bore Diaphragm - pk4 |
| U7145 | Rear Shock Body pr - XLS,TC |
| U7146 | Front Shock Body pr - XLS,TC |
| U7147 | Shock Cap pr - XLS,TC |
| U7148 | Rear Shock Shaft pr - XLS,TC |
| U7149 | Front Shock Shaft (pr) - CAT XLS |
| U7170 | Shock Top Bush 4 pcs - XLS,TC |
| U7171 | Shock Bush Internal pr - XLS,TC |
| U7172 | Shock Rebuild Kit pr - XLS,TC |
| U7176 | Front Pistons pr - XLS,TC |
| U7261 | Shock Mouldings pr - XLS,TC |
| U7272 | Shock Spring F6 Front (pr) |
| U7273 | Shock Spring R4 Rear (pr) |
| U7432 | Shock Spring Seat Moulded pr - L1,TC |
| U8328 | Vintage Springs Short Set (7pr) |
| U8329 | Vintage Springs Med Grey 2.7lb/in (pr) |
| U8330 | Vintage Springs Med Blue 3.0lb/in (pr) |
| U8331 | Vintage Springs Med Black 3.3lb/in (pr) |
| U8332 | Vintage Springs Med Set (6pr) |
| U8362 | Vintage Springs Med Green 3.6lb/in (pr) |
| U8363 | Vintage Springs Med Orange 4.4lb/in (pr) |
| U8364 | Vintage Springs Short Green 5.2lb/in (pr) |
| U8365 | Vintage Springs Short Purple 6.9lb/in (pr) |
| U8366 | Vintage Springs Short Orange 8.0lb/in (pr) |
| U8367 | Vintage Springs Short Grey 3.5lb/in (pr) |
| U8368 | Vintage Springs Short Blue 4.0lb/in (pr) |
| U8369 | Vintage Springs Short Black 4.5lb/in (pr |
| | |

Pinions

| U2309 | 20T Steel Pinion - 48 D.P. |
|-------|----------------------------|
| U2310 | 21T Steel Pinion - 48 D.P. |
| U2311 | 22T Steel Pinion - 48 D.P. |
| U2312 | 23T Steel Pinion - 48 D.P. |
| U2313 | 24T Steel Pinion - 48 D.P. |
| U2314 | 25T Steel Pinion - 48 D.P. |
| U2315 | 26T Steel Pinion - 48 D.P. |
| U2316 | 27T Steel Pinion - 48 D.P. |
| U2317 | 28T Steel Pinion - 48 D.P. |
| U2318 | 29T Steel Pinion - 48 D.P. |
| U2319 | 30T Steel Pinion - 48 D.P. |



Pinions Cont.

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| J3417 | Pinion; Hard Alloy 48dp - 17T |
|-------|-------------------------------|
| J3418 | Pinion; Hard Alloy 48dp - 18T |
| J3419 | Pinion; Hard Alloy 48dp - 19T |
| J3420 | Pinion; Hard Alloy 48dp - 20T |
| J3421 | Pinion; Hard Alloy 48dp - 21T |
| J3422 | Pinion; Hard Alloy 48dp - 22T |
| J3423 | Pinion; Hard Alloy 48dp - 23T |
| J3424 | Pinion; Hard Alloy 48dp - 24T |
| J3425 | Pinion; Hard Alloy 48dp - 25T |
| J3426 | Pinion; Hard Alloy 48dp - 26T |
| J3427 | Pinion; Hard Alloy 48dp - 27T |
| J3428 | Pinion; Hard Alloy 48dp - 28T |
| J3429 | Pinion; Hard Alloy 48dp - 29T |
| J3430 | Pinion; Hard Alloy 48dp - 30T |
| J3431 | Pinion; Hard Alloy 48dp - 31T |
| J3432 | Pinion; Hard Alloy 48dp - 32T |
| J3433 | Pinion; Hard Alloy 48dp - 33T |
| J3434 | Pinion; Hard Alloy 48dp - 34T |
| J3796 | 32T Steel Pinion - 48 D.P. |
| J3797 | 33T Steel Pinion - 48 D.P. |
| J3798 | 34T Steel Pinion - 48 D.P. |
| J3800 | 31T Steel Pinion - 48 D.P. |
| | |

Wheels

| J7597 | Front Wheels White (pr) - TOP CAT |
|-------|-------------------------------------|
| J7598 | Rear Wheels White (pr) - TOP CAT |
| CR681 | JC 5 Spoke 2.2 Rear White Wheel XLS |
| CR683 | JC Dish 2.2 Rear White Wheel XLS |
| CR684 | JC Spoke 2.2 Front Wheel - TOP CAT |
| CR685 | JC Dish 2.2 Front Wheel - TOP CAT |
| | |

Option Parts

| CR290 | 1/12 Servo Saver 23T Sanwa/KO |
|-------|---|
| CR291 | 1/12 Servo Saver 25T Futaba |
| U7243 | Alloy Washer Carriers (pr) - CAT XLS |
| U7245 | Alloy Eccentric (pr) - CAT XLS |
| U7315 | Titanium Turnbuckle - 35mm - Silver - pr |
| U7316 | Titanium Turnbuckle - 39mm - Silver - pr |
| U7317 | Titanium Turnbuckle - 45mm - Silver - pr |
| U7419 | Titanium M4 x 20 Grub Screw (pr) |
| U7424 | Alloy Lightweight LiPo Nut - (pr) |
| U7600 | Pro Transmission Conversion - TOP CAT |
| U7601 | Pro Diff Pulley Set - TOP CAT |
| U7602 | Pro Slipper Layshaft Set - TOP CAT |
| U7603 | Pro Belt 47T 8.0 Wide - TOP CAT |
| U7604 | Pro Transmission O'ring Set - TOP CAT |
| U7984 | Alloy LiPo Posts Short pr KC,KD,LD/2,L1/EVO |
| U7985 | Alloy LiPo Post Spacer-(4) KC,KD,LD/2,L1/EVO,ST |
| U8298 | CF Front Shock Mount - Cougar Classic |
| U8299 | Ball Raced Steering Set - Cougar Classic |
| U8302 | C/F Rear Shock Mount - Cougar Classic |



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| | | | | | Schumacher |
|--|--|---|---|--|---|
| | Classie | | | TYRES, WHEELS & INSERTS | |
| Full Spike 27 CAT | Poor Full Spike 27 CAT | Slim 2 Bour Stud 27 | Plack Poor Turos 27 | Plack Front Tyros 27 | AND Front Mini Spike 2 |
| T652 - Yellow Compound (pr) | Teso - Yellow Compound (pr) | T654 - Yellow Compound (pr) | T692 - Blue Compound (pr) U6786 - Yellow Compound (pr) | T693 - Blue Compound (pr) U6787 - Yellow Compound (pr) | 4WD Front Mini Spike 2 U6515 - Green Compound (pr) U6517 - Blue Compound (pr) U6557 - Yellow Compound (pr) U6762 - Silver Compound (pr) |
| Rear Mini Spike 2 U6516 - Green Compound (pr) U6518 - Blue Compound (pr) U6558 - Yellow Compound (pr) U6763 - Silver Compound (pr) | Mini Spike 2 Slim U6549 - Blue Compound (pr) U6550 - Green Compound (pr) U6581 - Yellow Compound (pr) U6761 - Silver Compound (pr) | Stagger Rib Slim | Full Spike Front 2.2" | Full Spike Rear 2.2" | Mini Pin Front 2.2" U6601 - BlueCompound (pr) U6607 - Yellow Compound (pr) U6777 - Silver Compound (pr) |
| Mini Pin Rear 2.2" | Mini Pin Slim 2.2" U6609 - Yellow Compound (pr) U6779 - Silver Compound (pr) | Cut Stagger Slim | Cut Stagger Low Profile USAN Compound (pr) U6770 - Yellow Compound (pr) U6775 - Silver Compound (pr) U6776 - Blue Compound (pr) | 2WD 2 Row Stud 2.2" | Mini Pin 2 Rear |
| Wide Stagger Rib Wide Stagger Rib Wide Stagger Rib View Compound (pr) V6811 - Silver Compound (pr) V6846 - Blue Compound (pr) | Mini Pin 1 Rear William Compound (pr) U6817 - Yellow Compound (pr) U6819 - Blue Compound (pr) U6820 - Silver Compound (pr) | Mini Pin 2 Front | Mini Dart Front 2WD | Mini Dart Front 4WD | Mini Dart Rear U6826 - Yellow Compound (pr) U6829 - Blue Compound (pr) U6822 - Silver Compound (pr) |
| Cactus Rear USB38 - Yellow Compound (pr) USB42 - Silver Compound (pr) USB44 - Blue Compound (pr) | Cactus Front | Slim Rib Spike Front | Mini Spike 2.0" Rear | Cactus Fusion 4WD Front | Honeycomb 2WD Front |
| Honeycomb 4WD Front | Honeycomb Rear | Mezzo Rear With the second sec | Mezzo Front 4WD | Cactus Fusion 2 4WD Front | For the full and latest range of off-road tyres, scan the QR cod |
| Front Slim Inserts U6738 - Medium (pr) U6667 - Hard (pr) | Front Medium Inserts U6733 - Medium (pr) U6746 - Medium Tubby (pr) U6652 - Hard (pr) | Rear Inserts U6734 - Medium (pr) U6747 - Medium Tubby (pr) U6653 - Hard (pr) U6669 - Hard Ultra Wide (pr) U6669 - Hard Ultra wide (pr) | | U7181 - F U7182 - F U7289 - V U7290 - V U7290 - V U7597 - V U7598 - V CR680 - C CR680 - CR681 - C CR682 - C CR683 - C | Wheels Rear Wheel Black (pair) Front Wheel Black (pair) White Rear Wheel (pair) White Front Wheel (pair) White Front Wheel TopCat (pair) UC 5 Spoke 2.2 Front White (pr) UC 5 Spoke 2.2 Rear White (pr) UC Dish 2.2 Rear White (pr) |



