



**Instruction Manual 18801** 



71-73 Tenter Road Moulton Park Northampton 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.

#### ADDITIONAL ITEMS REQUIRED







Motor and Pinion Gear



Steering Servo



**Electronic Speed Controller** 



2S Shorty LiPo



Pro Tyre Glue



Polycarbonate Paint



**Battery Charger** 



Tyres and Inserts

## **TOOLS REQUIRED**

1.5mm Hex Driver - U2789

2.0mm Hex Driver - U2790

2.5mm Hex Driver - U2791

3.0mm Hex Driver - U2792

5.5mm M3 Nut Driver - U2795

7.0mm M4 Nut Driver - U2796

Body Reamer - U2818

Pliers - CR528

Side Cutters - CR527

Soldering Iron - CR275

Solder - U3107

Curved Scissors - CR044





Axle Grease - Pot - U1300



CORE RC Medium Thread Lock 3ml - CR520



CORE RC 522 Pro Tyre Glue 20g + 2 Nozzles - CR522



Caution/Important note. Please read.



Left-Hand Side of car



Right-Hand Side of car



Additional information that will help you build a faster race car.



Set up Sheet - Refer to page 40.



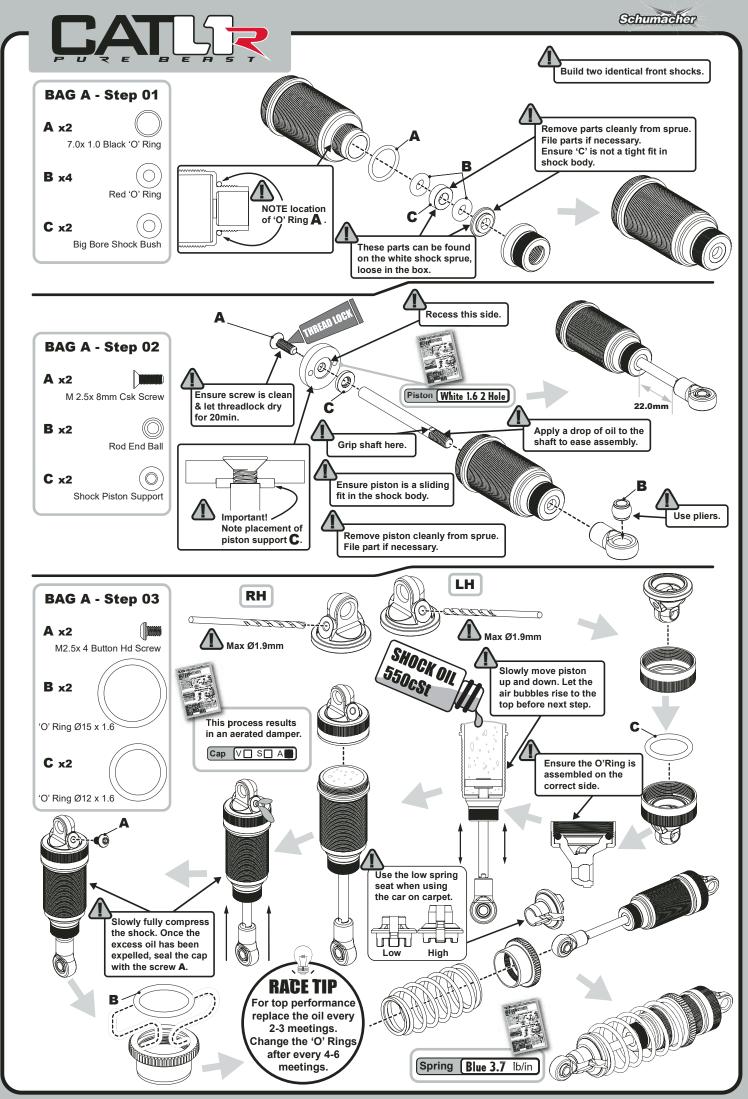
www.racing-cars.com

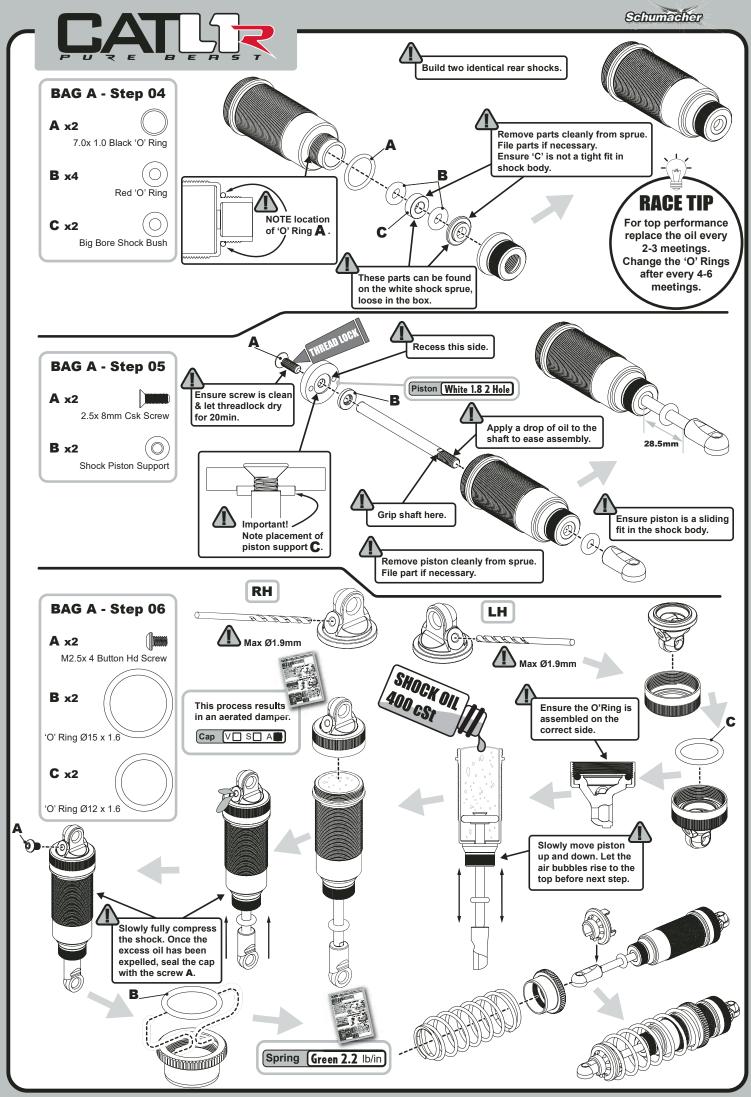


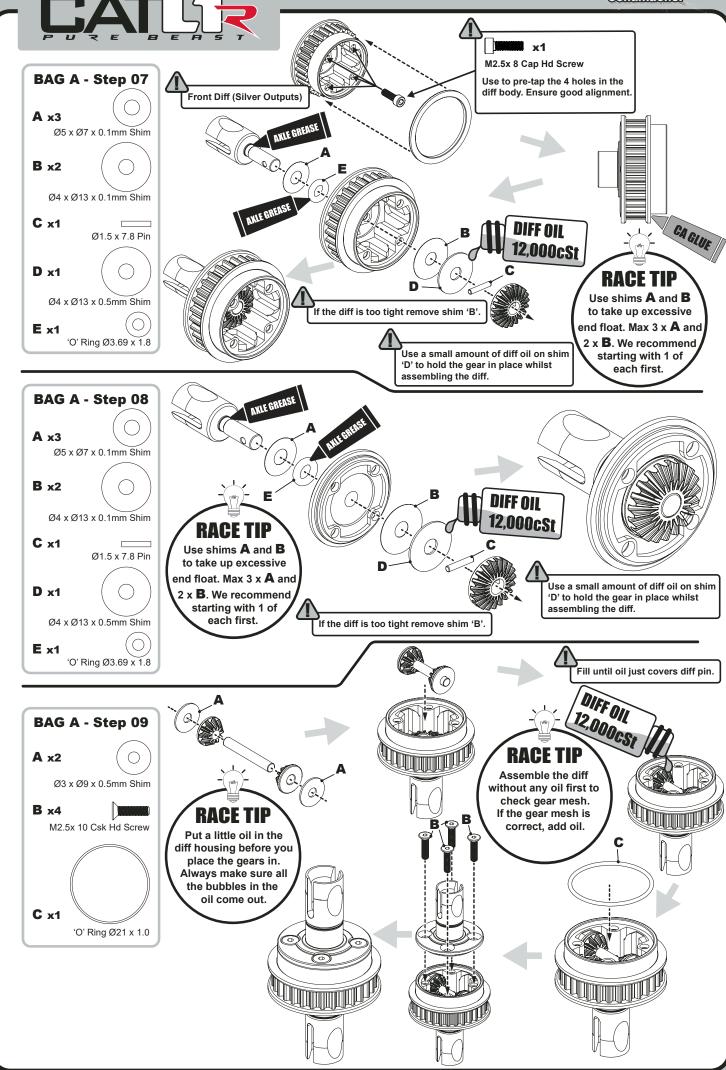




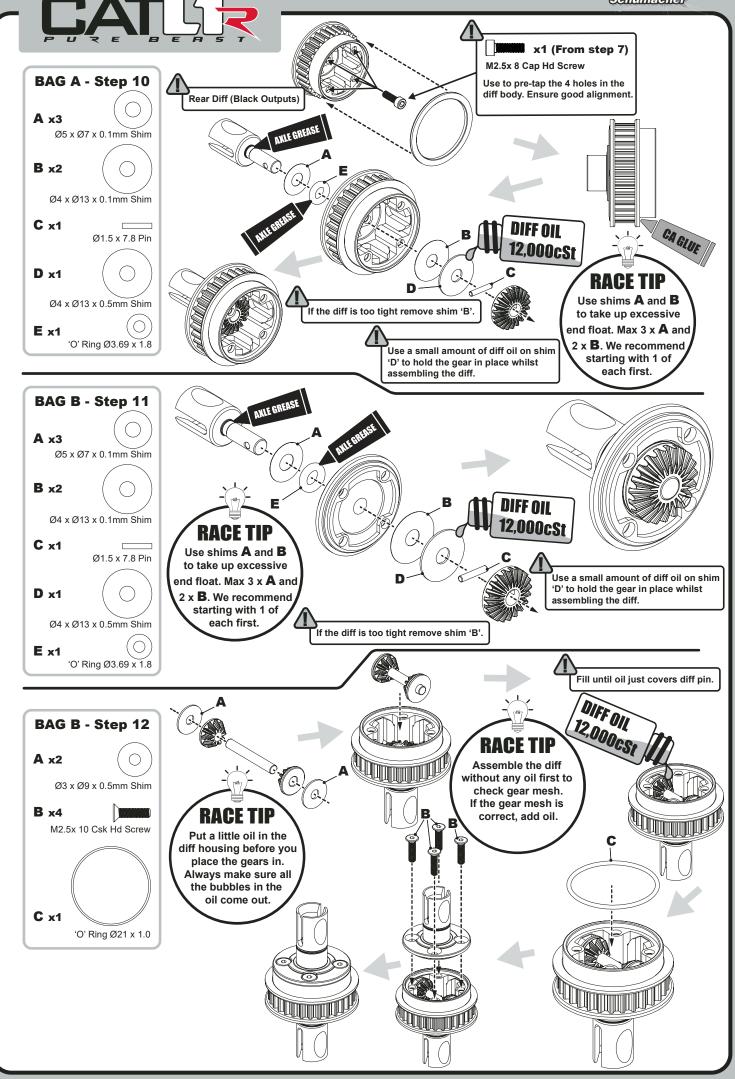


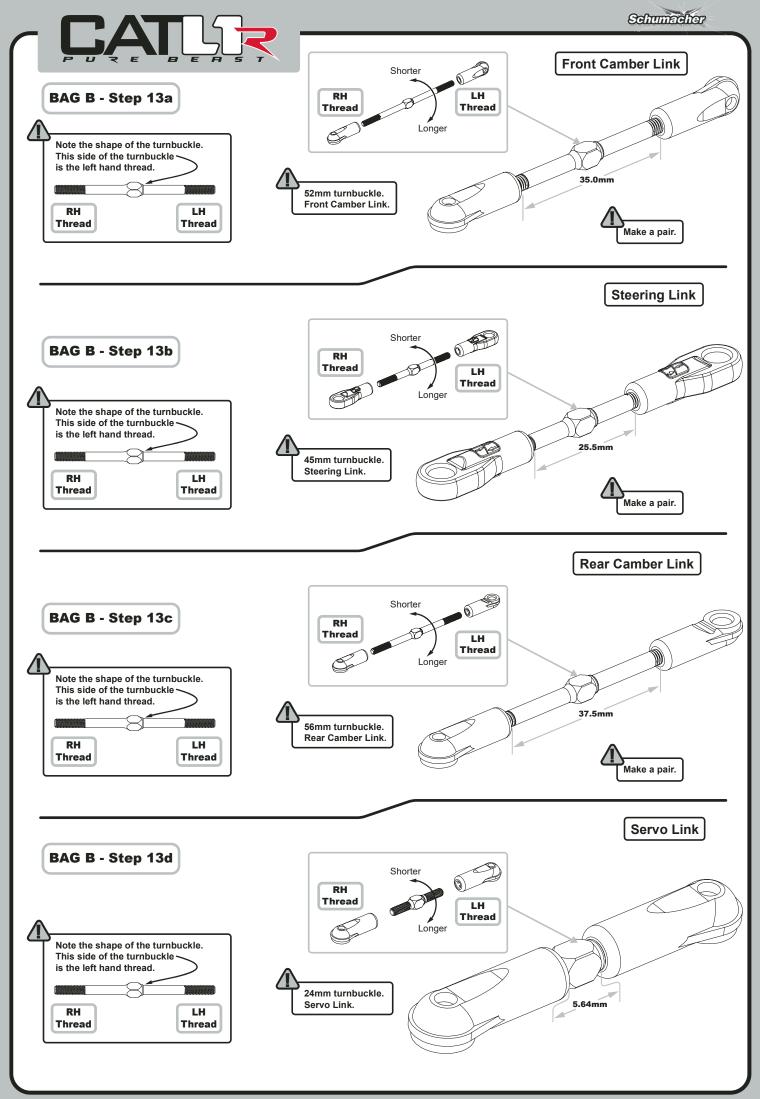


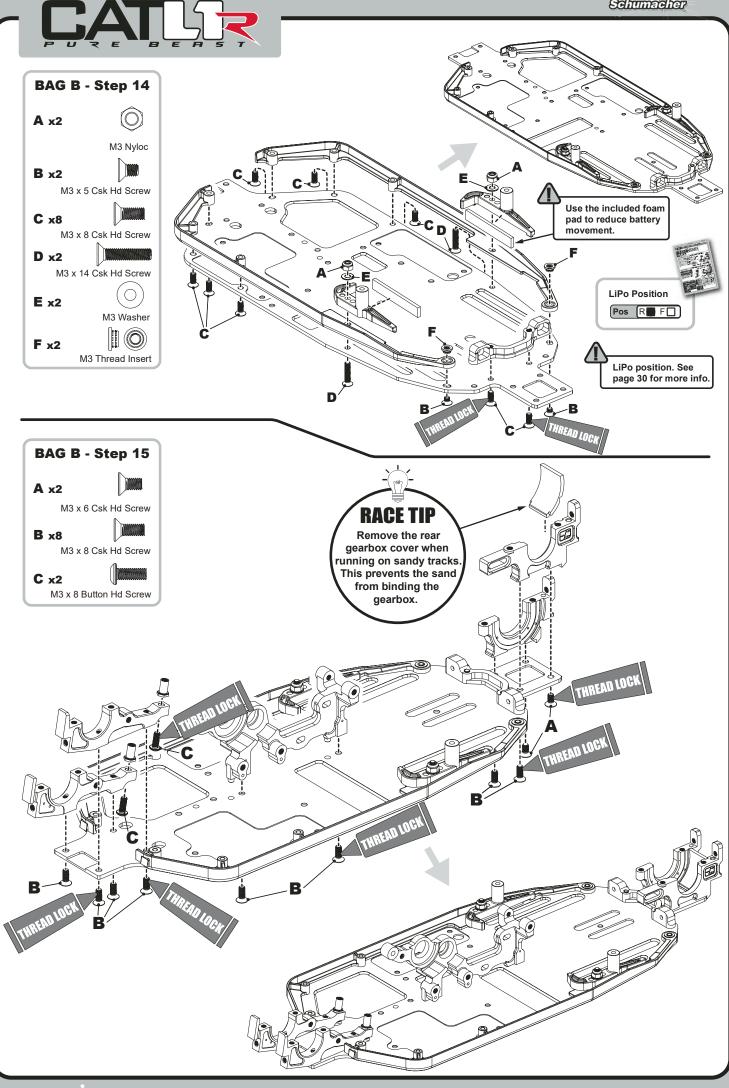


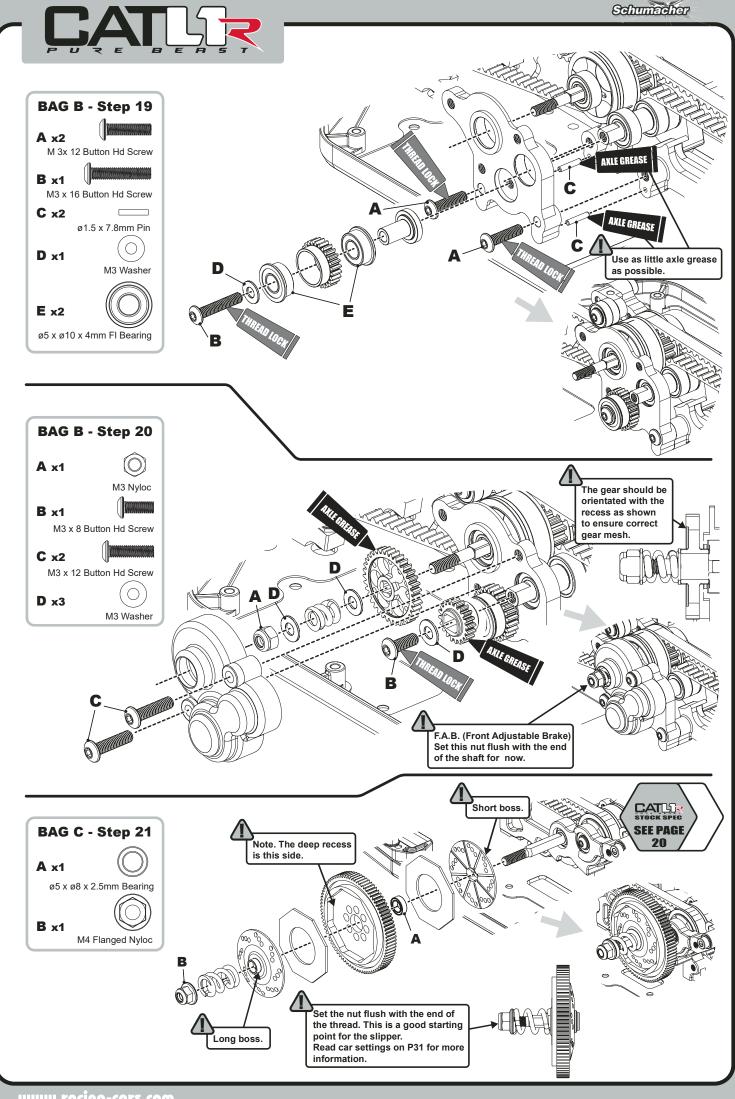






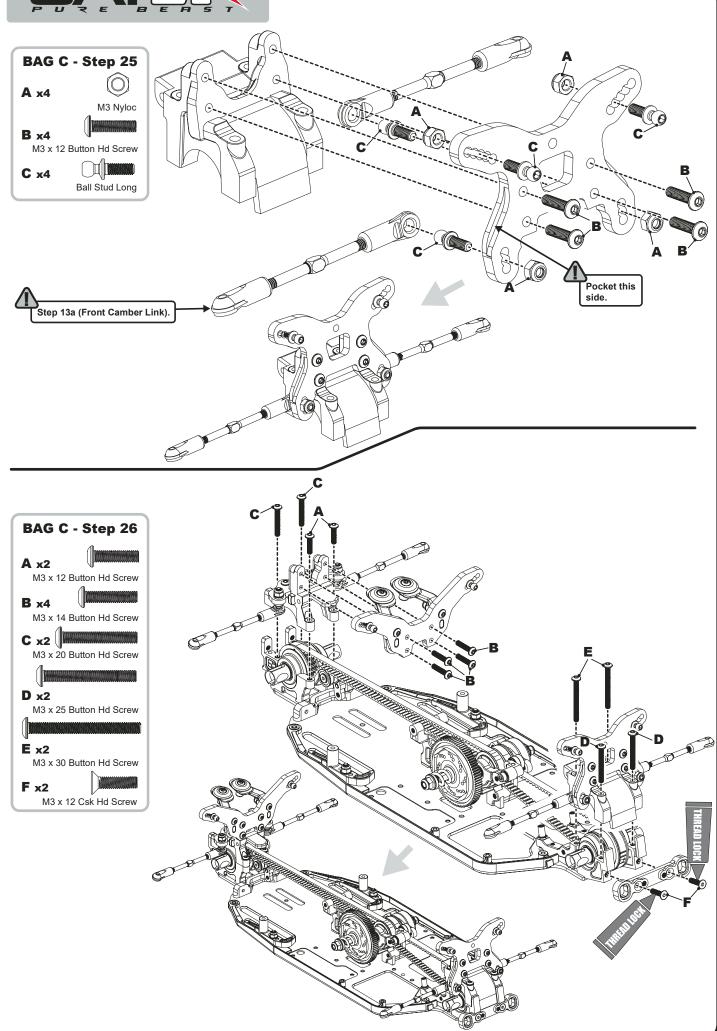


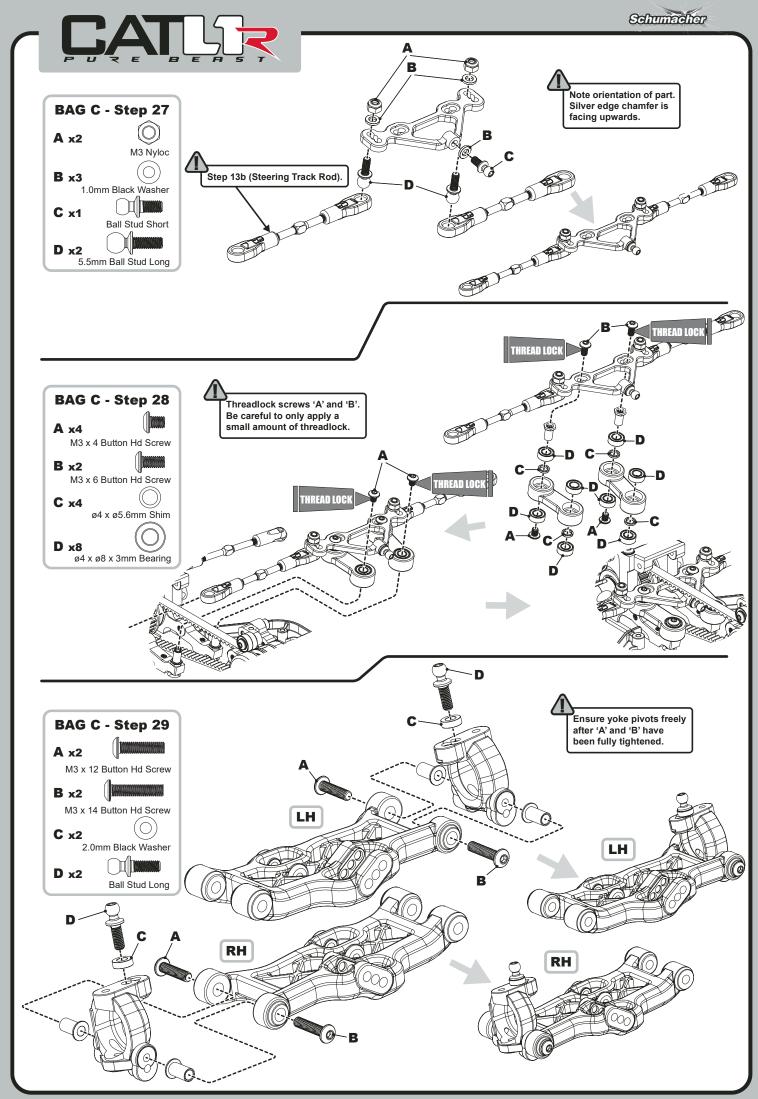


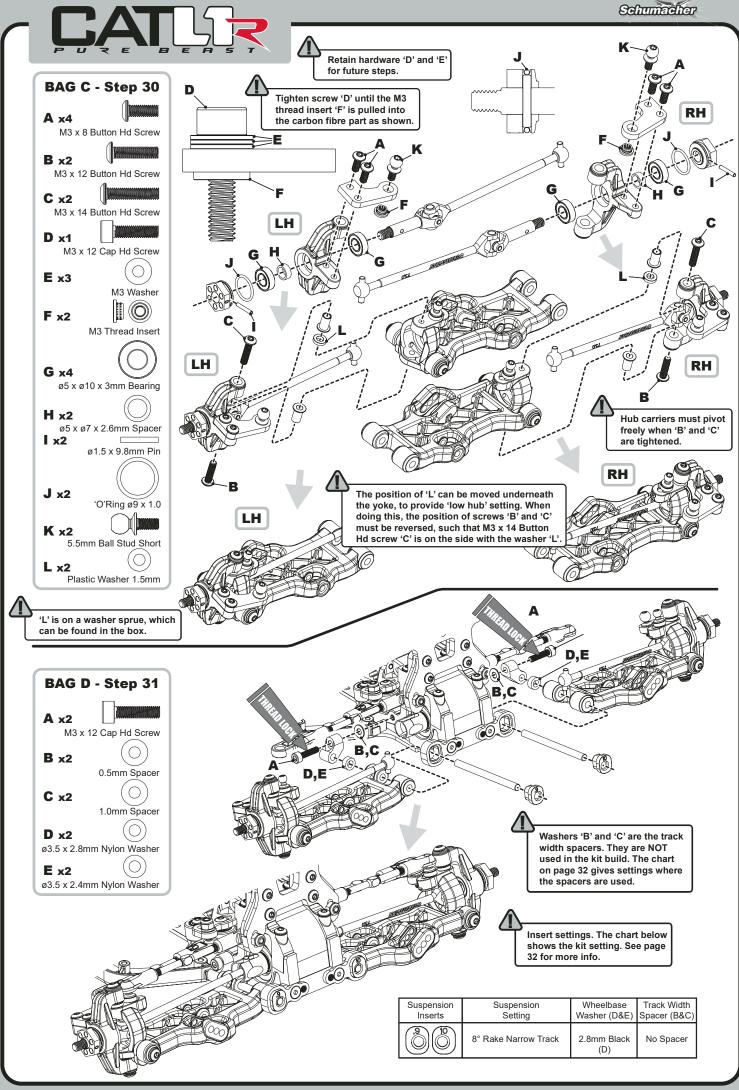


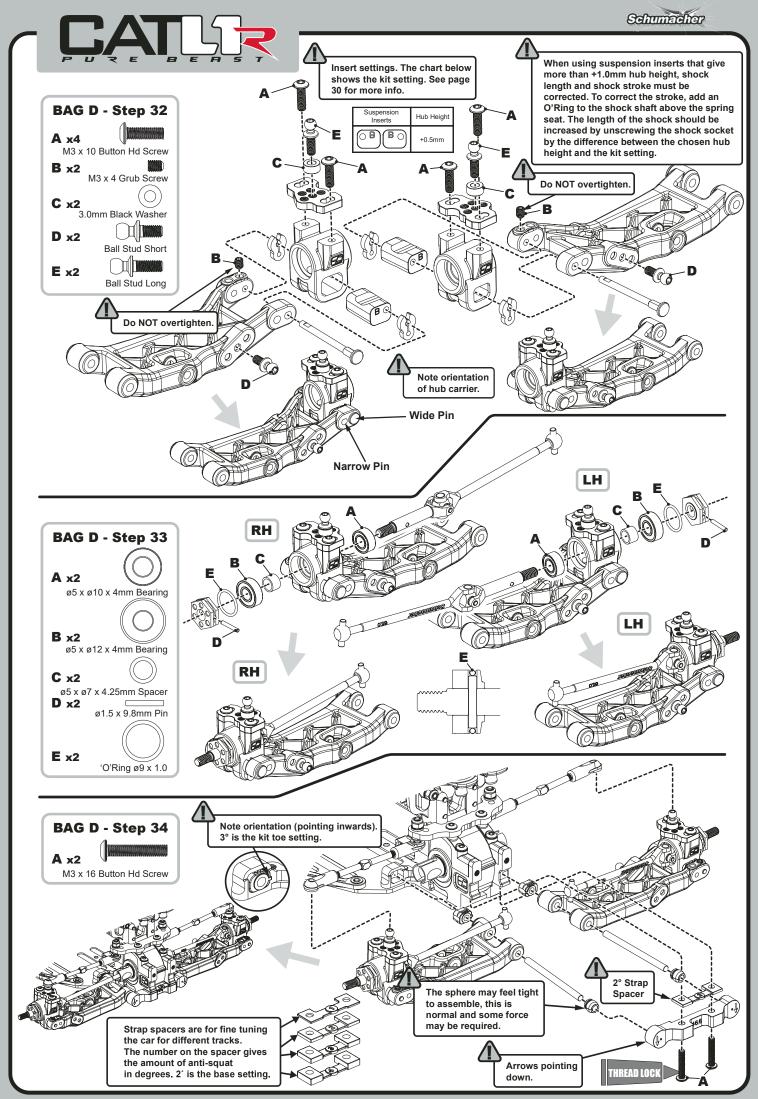
Ball Stud Long

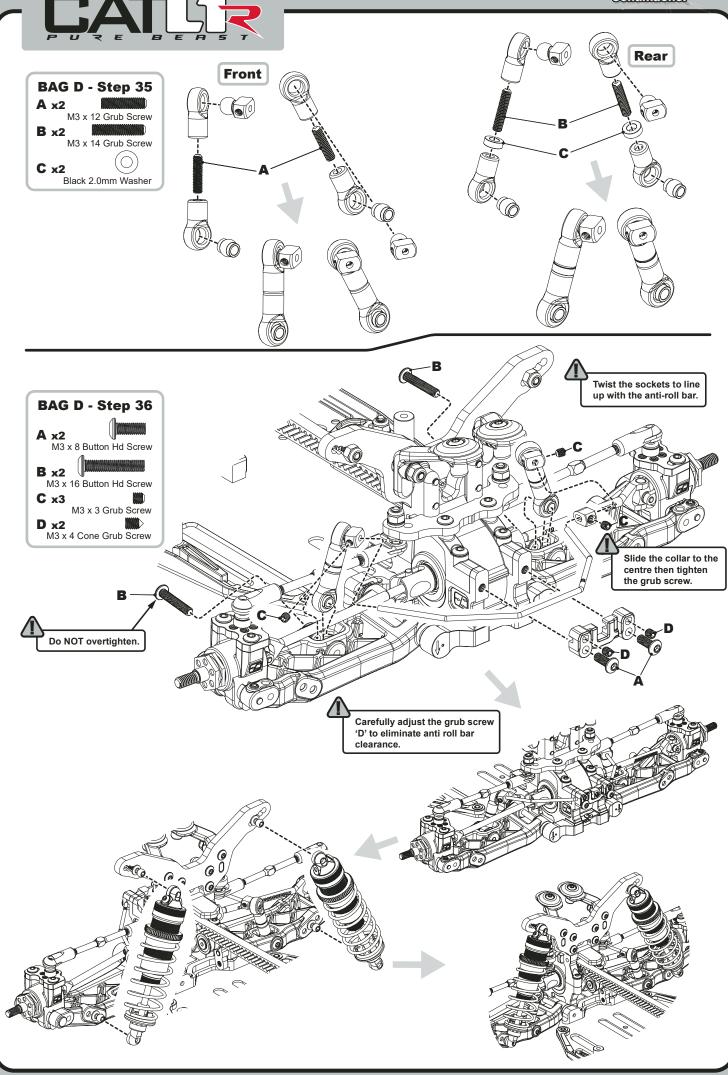


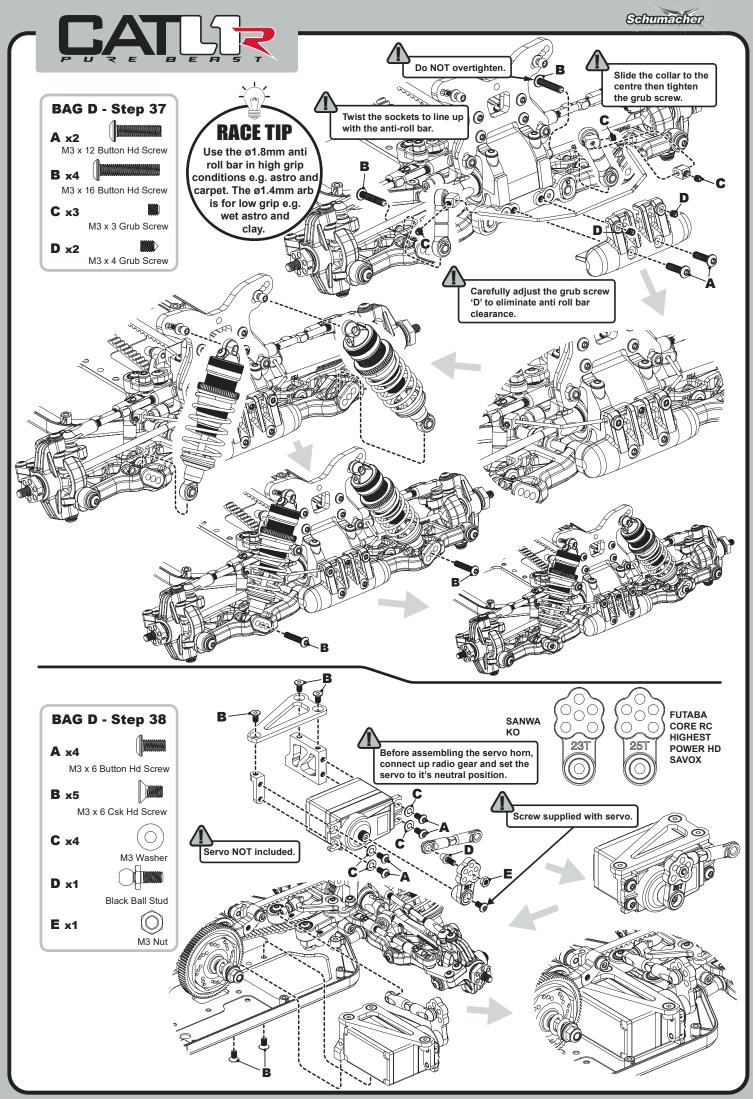


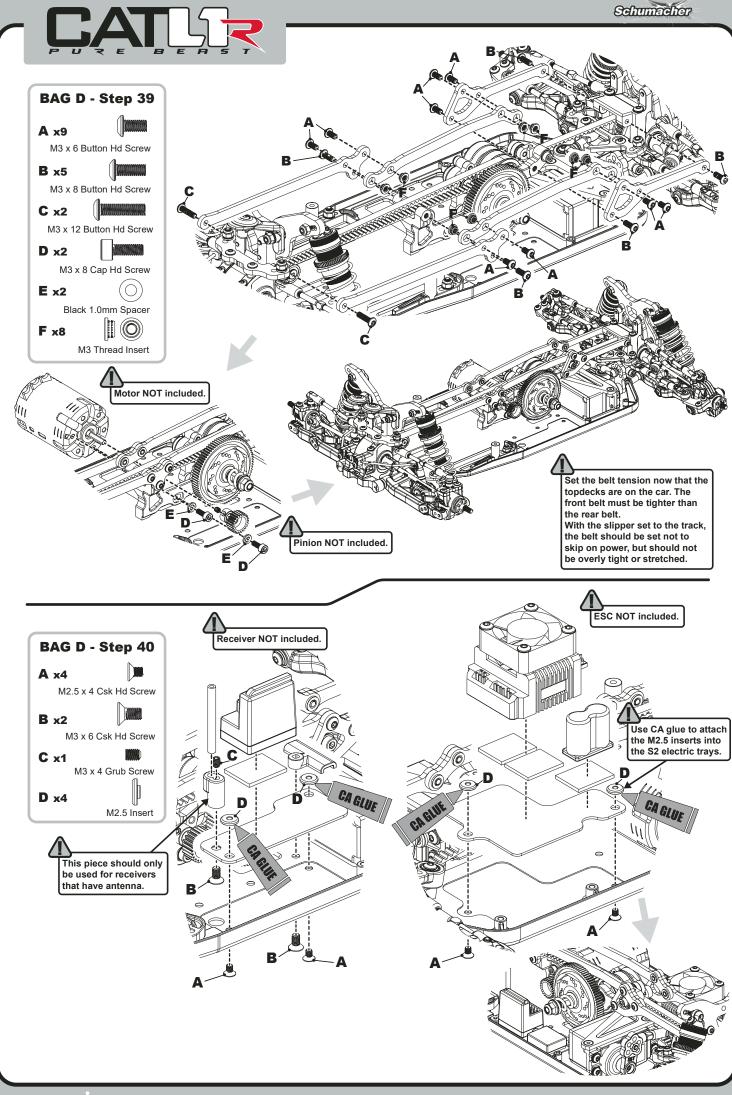




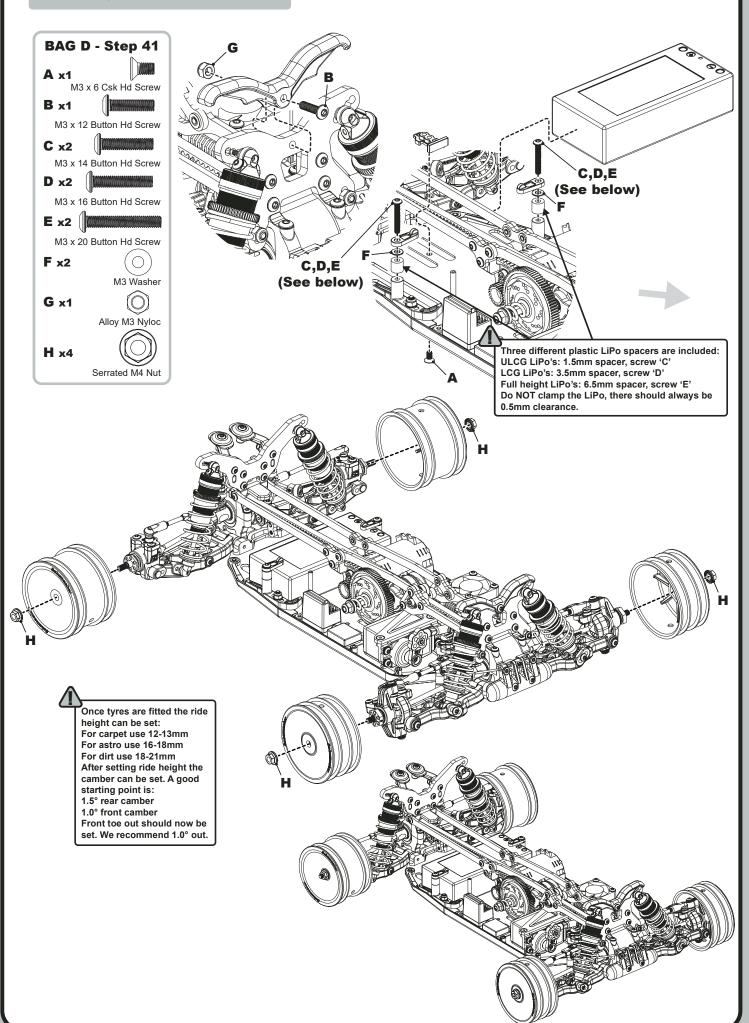




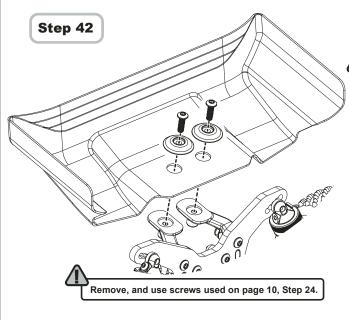




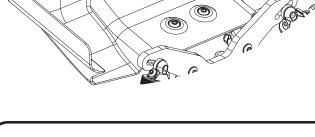


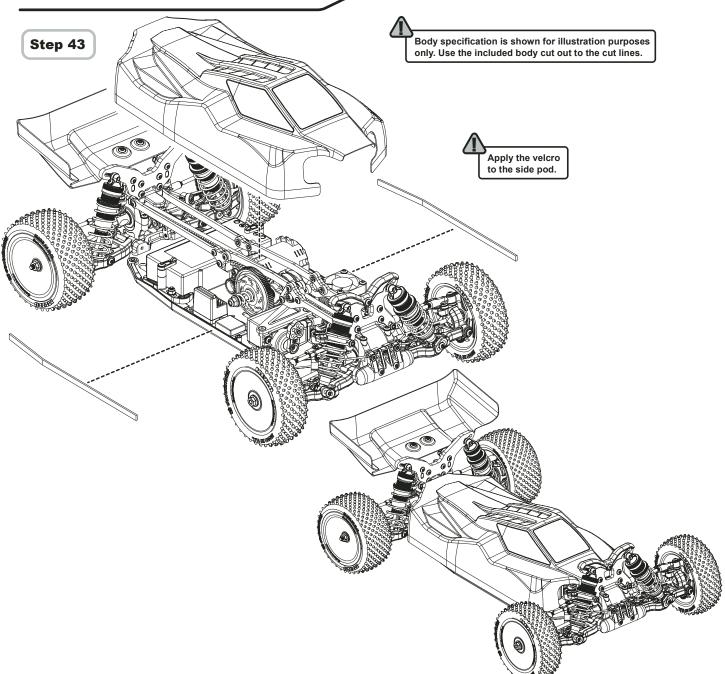


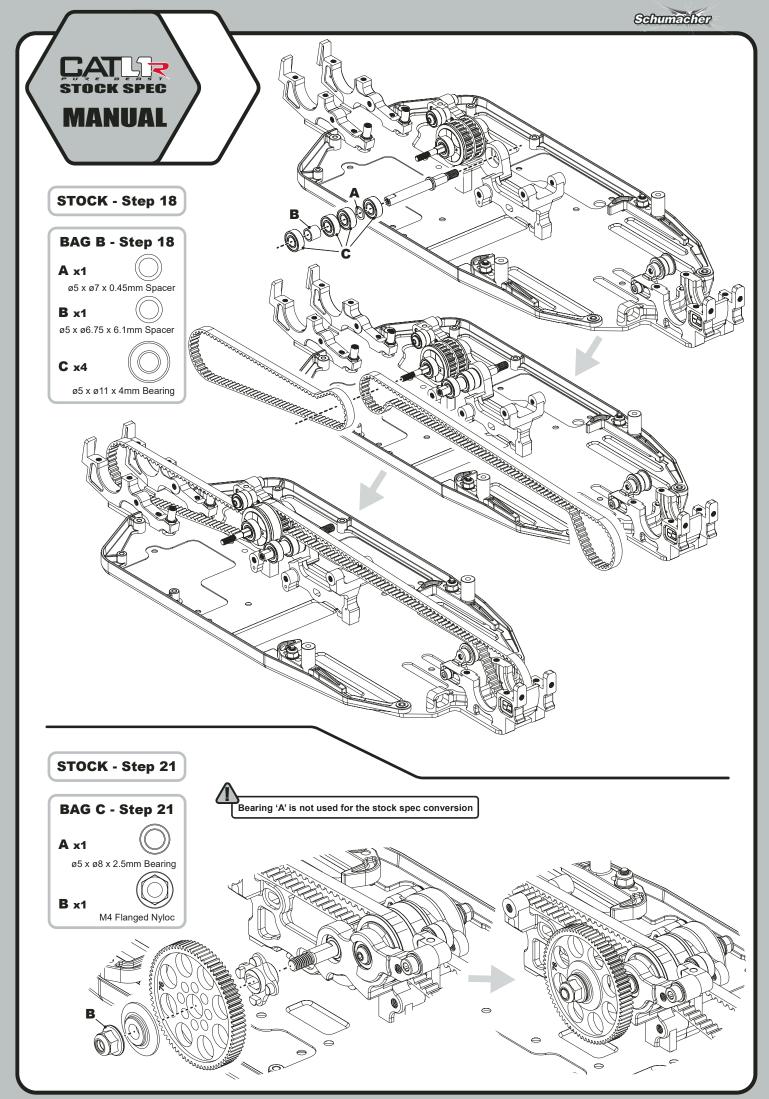




Before painting, drill two 8.0mm mounting holes.
We recommend using a body reamer.









#### **SPARES LISTS**

Chassis Barts

Uliassis Fai ts						
U119	Aerial Tube - Pack 4					
U122	Velcro 1/2metre x 16mm.					
U4741	6mm Offset Servo Arms					

U4773 **Aerial Mount** 

U7335 Wire Clamp Mouldings 3pcs - L1/EVO

U7336 Front Bumper - L1/EVO

U7339 Front Carpet Protector - LD/2,L1/EVO

U7382 C/F Servo Mount - L1/EVO

U7685 C/F HD Front Top Decks 2.5mm pr - L1/EVO

Alloy Servo Post - Mi7,L1 EVO U7849 U7952

Wing Mount Mouldings - L1 EVO,LD2 U8401 Alloy Chassis - L1R

U8405 Side Pods - L1R (pr)

U8406 LiPo Mounting - L1R (3 pcs) U8412 S2 Front Shock Mount - L1R U8413 S2 Rear Shock Mount - L1R

U8414 C/F Center Top Deck - L1R (pr) U8415 C/F Rear Top Deck - L1R (pr) U8416 C/F Steering Arm - L1R (pr)

U8417 C/F Rear Camber Plate - L1R

S2 ESC Tray - L1R U8418 U8419 S2 Receiver Tray - L1R

#### **Bodies & Decals**

AX005 Aerox Wing CAT L1/EVO,LD/2 - 1.0mm AX020 Aerox Wing CAT L1/EVO,LD/2 Carbon - 1.5mm AX021 Aerox Wing CAT L1/EVO,LD/2 Black - 1.5mm AX022 Aerox Wing CAT L1/EVO,LD/2 White - 1.5mm

PCB007 Penguin Emperor Wing - 1mm PCB010 Penguin King Wing - 1mm PCB016 Penguin Rockhopper Wing - 1mm PCB031 Penguin Royal Wing - 1mm

JC0168 JConcepts-B6.3/B74.1 Rear Wing, 2pc JC0169 Aero B6.3/B74.1 Rear Wing-Short Chord, 2pc JC0173 JConcepts-Aero S-Type B6.3/B74.1 Wing, 2pc JC0181 JConcepts-Aero S-Type 7inch Rear Wing, 2pc

JC0197 JConcepts-Carpet-Astro High-Clearance Rear Wing JC0471 CAT L1R Body

JC0471L CAT L1R Body - Lightweight

JC0501 Carpet/Astro High-Clearance 7" Rear Wing JC0503 Carpet/Turf/Dirt, 6.5" Wing - pre-cut

Carpet/Turf/Dirt, 7" Wing - pre-cut JC0504 KRC-MFWING Klinik RC - Max Flow Wing (2)

#### Suspension

U3708 Quick Clips 2.4 x 2.0mm (pk4) - 2WD/4WD U3729 WishbonePivot Spheres pk4 - Cougar,ST U4221 Turnbuckle Adjuster HTT - 24mm - pr U4223 Turnbuckle Adjuster HTT - 45mm - pr U4274 Pro Ball Stud Short - pk4 U4275 Pro Ball Stud Long - pk4

U4299 Turnbuckle HT - 52mm - pr Pro Ball Stud - Ultra Long - (pk4) U4700 U4850 Low Ball Stud pk4 - A1,A2,L1/EVO,E1-E4

Rear Strap Spacers - Cougar KD,KC,L1/EVO,LD/2,ST U7083

U7337 Radius Arms pr - L1/EVO,LD2 U7352 Alloy Centre Track Rod - L1/EVO U7354 Alloy Front Strap - L1/EVO U7355 Alloy Servo Mount - L1/EVO

Rod End Ball Wide & Socket pr - L1/EVO,ST,CC U7367 U7368 Rear Outboard Pivot Pin pr - LD/2,L1/EVO

U7384 Rear ARB Clamp - L1/EVO

U7385 Alloy Roll Bar Ball (Dia 5.5mm) pr - L1/EVO U7431 Rod End Socket (Dia 5.5mm) (pk4)

U7628 Rear Toe-In Inserts 8prs - LD/2,L1 EVO,ST U7659 ARB Mounting Collar - LD/2,L1 EVO,ST

U7672 Turnbuckle Adjuster HTT - 56mm - (pr) U7971 Steering Pivot and Spacer - CAT L1 EVO (pr) U7987 Rear Wishbones Med Flex - CAT L1/EVO,LD2 U7988 Yokes Med Flex 10 Deg - CAT L1/EVO

U8201 Rear Inboard Pivot Pin - LD2 (pr) U8296 Rear Hub Carrier - L1R (pr) U8297 Alloy Rear Hub Plate - L1R (pr)

Suspension Cont.

U8311 Rear Hub Carrier Inserts - L1R (4 prs) 5.5mm Long Socket - L1R (4 pcs) U8400 U8407 Alloy Front Pivot Block - L1R (pr)

U8408 Front Strap Inserts and Washers - L1R (7 prs)

U8409 Front Inboard Pivot Pin - L1R (pr) U8410 Front Wishbones Med Flex - L1R (pr)

U8411 Front Hub Carriers - L1R (pr) U8420 Pivot Bush - L1R (4 pcs) U8424 Alloy RF Strap - L1R

U8425 Alloy RR Strap - L1R

5.5mm Pro Ball Stud Short (4 pcs) U8427 U8428 5.5mm Pro Ball Stud Long (4 pcs) U8432 Rear Roll Bar Set - soft (4 pcs) U8435 Rear Roll Bar Set - Hard (3 pcs) U8436 Front Roll Bar Set - Soft (4 pcs) U8437 Front Roll Bar Set - Hard (3 pcs)

#### **Transmission**

U2761 Diff Shims; 10x12x0.2 (pk8) U3311 Axle Spacers 5x7 2prs - Off Road

U3351 Gear; 83t Spur - Slipper

Slipper Pad; PTFE Octagon pr - Off Road U3364 U4106 Slipper Spring - SVR,KR,K1/Aero,L1/Evo SPEED PACK - Shims 5 x 7 x 0.4mm - pk6 U4124

U4176 Gear Diff Gear Set - Off Road,FT

U4486 Rear Wheel Bearing Spacers pr - KF,LD2

U4712 Gear Diff O-Rings

U7061 Reverse Gear - KC,L1/EVO Reverse Post - KC,L1/EVO 117062

U7065 Slipper Spring Twin Plate - 2WD/4WD U7066 Diff Output Pin pr - KD,KC,L1/EVO,ST,LD2 U7068 Eccentrics 2 prs - KC,L1/EVO,LD/2,ST

U7338 Dirt Covers 3pcs - L1/EVO U7340 Side Gear Cover - L1/EVO

U7341 Alloy LH Lower Rear Trans - L1/EVO

Layshaft Spacer - L1/EVO U7361 U7364 FAB Side Fence RH - CAT L1 FAB Side Fence RH - L1/EVO U7365 U7366 FAB Side Fence LH - L1/EVO

Gear Diff Output - L1/EVO U7391 U7394 Front Belt Tensioner - L1/EVO

U7398 Alloy Wheel Hex 6mm (0) pr - LD/2,L1/EVO,ST

Upper Front Trans - CAT L1 EVO U7950 U7951 Upper Rear Trans - CAT L1 EVO U7955 Belt Polyurethane 97T x 5mm Wide Belt Polyurethane 155T x 5mm Wide U7956 U7958 Tensioner Post - CAT L1 EVO (pr)

U7959 FAB Shaft - CAT L1 EVO U7961 22T Front Pulley - CAT L1 EVO 22T Rear Pulley - CAT L1 EVO FAB Side Gear - CAT L1 EVO U7962 U7963 U7964 Alloy Laymount - CAT L1 EVO

U7966 Alloy Lower RH Rear Trans - CAT L1 EVO U7968 Rear Belt Tensioner - CAT L1 EVO

U7980 0.5mm 20T Bevel Gear Shim - L1 EVO,ST,LD2

U8063 Diff Output Long - CAT L1/EVO (pr) U8395 2 Gear Diff Pin - LD/2 L1/Evo U8399

Outer Slipper Plate - L1R U8402 Motor Mount - L1R

U8403 Alloy RH Lower Front Trans - L1R U8404 Alloy LH Lower Front Trans - L1R

U8421 Alloy Layshaft - L1R U8422 20t Side Gear - L1R U8423 Inner Slipper Plate - L1R

U8429 Alloy Wheel Hex 4.5mm (-1.5) pr - L1R

U8430 Front Driveshaft - L1R (pr) Rear Driveshaft - L1R (pr) U8431 U8433 Gear Diff Rebuild Kit - L1R U8434 Gear Diff Mouldings V3 - L1R

#### **Bearings & Balls**

Ball Bearing - 5x10x4 Red Seal - (pr) 112698 112699 Ball Bearing - 10x15x4 Red Seal - (pr)



#### SPARES LISTS

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	ngs & Balls Cont.		vare Cont.
U3075	Ball Bearing - 4x8x3mm Red Seal - (pr)	U7103	SPEED PACK - M3x6 Button Hd (pk10)
U3136	Ball Bearing - 5x8x2.5 - Shield (pr)	U7104	SPEED PACK - M3x8 Button Hd (pk10)
U3871 U4318	Ball Bearing - 5x9x3 Red Seal - (pr)	U7105	SPEED PACK - M3x10 Button Hd (pk10)
U7088	Ball Bearing - 5x10x3 Red Seal - (pr)	U7106 U7107	SPEED PACK - M3x12 Button Hd (pk10)
U7328	Ball Bearing 5x10x4 Red Seal FL - (pr) Ball Bearing - 5 x 11 x 4 Red Seal - (pr)	U7107	SPEED PACK - M3x16 Button Hd (pk10) SPEED PACK - M3x20 Button Hd (pk10)
U8274	Ball Bearing 5x12x4 Red Seal (pr)	U7109	SPEED PACK - M3x25 Button Hd (pk10)
00214	Ball Beating 3x12x4 Ned Seal (pl)	U7112	SPEED PACK - M3x8 Cap Hd (pk10)
Dia D	ara Shaaka	U7113	SPEED PACK - M3x10 Cap Hd (pk10)
U4110	ore Shocks	U7114	SPEED PACK - M3x12 Cap Hd (pk10)
U4217	Off Road Shock O Ring 1/8 Silicone Pk 8 Vented Shock Cap Service Kit-Small/Big Bore pr	U7122	SPEED PACK - M3x12 Csk Hd (pk10)
U4451	Big Bore Shock Collar O-ring - pk4	U7223	SPEED PACK M3 X 12 Grub (pk10)
U4702	Shock Seal Housing V2 - Big Bore pr Off Road	U7331	SPEED PACK - M3 X 30 Button Hd (pk10)
U4707	Short Ball Grippa - Grey (pk8)	U7332	SPEED PACK WASHERS Dia 3.5 (pk15)
U7084	Shock Top Ring (pr) - Cougar KD,KC,LD/2,ST	U7611	SPEED PACK - M3x14 Button Hd (pk10)
U7085	Shock Top (pr) - Cougar KD,KC,LD/2,ST	U7677	SPEED PACK - M2.5x8 Csk Hd (pk10)
U7388	Alloy Med Shock Body pr - LD/2,L1/EVO	U7689	M3 Brass Inserts - pk10
U7389	Alloy Long Shock Body pr - LD/2,L1/EVO,ST	U7707	M3 Steel Washers (pk10)
U7390	Alloy Spring Adjuster pr - LD/2,L1/EVO,ST	U7710	M3 Black Alloy Washers 1.00mm (pk10)
U7625	Spring Hanger Low pr - LD/2,L1 EVO	U7711	M3 Black Alloy Washers 2.00mm (pk10)
U7626	Spring Hanger High pr - L1 EVO,ST	U7712	M3 Black Alloy Washers 3.00mm (pk10)
U7630	Shock Piston Support pr - LD/2,L1 EVO,ST	U7728 U7791	M2.5x4 Button Screws (pk10) SPEED PACK M2.5 x 4 Csk (pk4)
U7632	Tapped Shock Shaft; Med pr - LD/2,L1 EVO	U7900	SPEED PACK M2.3 x 4 Csk (pk4) SPEED PACK Needle Roller 1.5x9.8 (pk10)
U8380	Moulded Shock Pistons and Bushes - L1R (2 pr)	U7970	M2.5 Thread Insert pk10 - L1 EVO,ST,LD2
U8426	Tapped Shock Shaft; Long (+1.2mm) - L1R	U8273	M4 Steel Nyloc Flanged Nut (4 pcs)
D: D	0	U8275	Plastic Washer Set 1,1.5,2,3,4mm (20 pcs)
	ore Springs	U8351	M3x5 Csk Hd (pk10)
CR177	CORE RC Big Bore Spring Tuning Set; Med 7prs	U8352	M3x14 Csk Hd (pk10)
CR178 CR179	CORE RC Big Bore Spring Tuning Set; Long 7prs Big Bore Spring; Med White - 2.8 pr		
CR179	Big Bore Spring; Med Red - 3.1 pr	Option	n Parts
CR181	Big Bore Spring; Med Green - 3.4 pr	AX011	Aerox Alloy Servo Arm - Offset 25T Futaba
CR182	Big Bore Spring; Med Blue - 3.7 pr	AX012	Aerox Alloy Servo Arm - Offset 23T KO/Sanwa
CR183	Big Bore Spring; Med Black - 4.0 pr	CR280	Ti Pro Ball Studs - Short - (pr)
CR184	Big Bore Spring; Long White - 1.8 pr	CR282	Ti Pro Ball Studs - Long - (pr)
CR185	Big Bore Spring; Long Red - 2.0 pr	CR720	Ti Pro Ball Studs - Ultra Long - pk 2
CR186	Big Bore Spring; Long Green - 2.2 pr	U3350	Gear; CNC 82t Spur - 2/4 Plate Slipper
CR187	Big Bore Spring; Long Blue - 2.4 pr	U3790	Gear; CNC 76T Spur - Slipper
CR188	Big Bore Spring; Long Black - 2.6 pr	U4726 U4890	Pro Ball Bearing - 5x10x3 Shield - (pr) Alloy Spring Seat - Off Road - pr
CR635	Big Bore Spring; Med Orange - 4.3 pr	U4946	Pro Ball Bearing 5 x 10 x 4 sealed - pr
CR636	Big Bore Spring; Med Yellow - 4.6 pr	U7313	Titanium Turnbuckle - 24mm - Silver - pr
CR699 CR700	Big Bore Spring; Long Orange - 2.8 pr Big Bore Spring; Long Yellow - 3.0 pr	U7317	Titanium Turnbuckle - 45mm - Silver - pr
CR700	High Response Spring; Long Red - 2.0 lb/in (pr)	U7318	Titanium Turnbuckle - 53mm - Silver - pr
CR809	High Response Spring; Long Green - 2.2 lb/in (pr)	U7325	Pro-Ball Bearing 5x11x4 Sealed - pr
CR810	High Response Spring; Long Blue - 2.4 lb/in (pr)	U7673	Titanium Turnbuckle - 56mm - Silver - (pr)
CR811	High Response Spring; Long Black - 2.6 lb/in (pr)	U7333	Rear Wishbones pr - LD,L1/EVO
CR812	High Response Spring Tuning Set Long 4prs	U7342	Alloy LH Upper Rear Trans - L1/EVO
		U7343	Alloy RH Upper Rear Trans - L1/EVO
Hard	ware	U7348	Alloy LH Upper Front Trans - L1/EVO
CR024	CORE RC - Serrated M4 Steel Wheel Nut pk4	U7349	Alloy RH Upper Front Trans - L1/EVO
CR035	CORE RC - Serrated Alloy M4 Nuts; Blue pk 4	U7353	Front Strap Inserts 8pcs - L1/EVO
CR036	CORE RC - Serrated Alloy M4 Nuts; Violet pk 4	U7356	Belt 97T x 4mm Wide Polyurethane
CR196	CORE RC - Serrated Alloy M4 Nuts - Black - pk4	U7357 U7400	Belt 155T x 4mm Wide
CR304	Titanium Wheel Nuts M4 - pk4	U7400	Titanium Low Profile M4 Serrated Nut (pk4) Alloy Wheel Hex 6.75mm (+.75) pr - LD/2,L1/EVO,ST
U1633	SPEED PACK - Small Pins (pk)	U7403	Alloy Wheel Hex 7.5mm (+1.5) pr - LD/2,L1/EVO,ST
U1960	SPEED PACK - O Rings; Various	U7404	Alloy Radius Arms pr - L1/EVO,LD2
U2187	SPEED PACK - M3 Nyloc Nut - Purple Alloy (pk8)	U7417	83T 3 Plate Slipper Spur Gear
U3021	SPEED PACK - M3x6 Csk Hd - (pk10)	U7418	V2 3 Plate Slipper Clutch ConvLD/2,L1/EVO,ST
U3022	SPEED PACK Alloy Speeds M3v7mm 0 5:1:3mm (pk10)	U7434	Alloy Med Shock Body Kashima pr-LD/2,L1/EVO
U3131 U3572	SPEED PACK Alloy Spacers - M3x7mm 0.5;1;2mm (pk18 SPEED PACK - M3x14 Grub Screw pk4	<sup>O)</sup> U7435	Alloy Long Shock Body Kashima pr-LD/2,L1/EVO,ST
U3754	SPEED PACK - M3.5x14 Grub Screw pk4  SPEED PACK - M2.5x10 Csk Hd pk8	U7490	C/F Wishbones Rear pr - L1/EVO,LD/2
U4210	SPEED PACK - Pinion Grub Screw Set pk10	U7492	C/F Front Bumper - L1/EVO
U4220	'O' Ring 9.0x1.0 (pk10)	U7615	80T 2,3,4 Plate Slipper Spur Gear
U4241	SPEED PACK - M3 Alloy Nyloc Nuts - Black - pk10	U7616	78T 2,3,4 Plate Slipper Spur Gear CNC
U4314	SPEED PACK - Alloy Black M3 Washers - 18pc	U7646	Alloy Wheel Hex 5.25mm (75) pr - LD/2,L1/EVO,ST
U4650	SPEED PACK - M3 Nyloc Nut Steel - Black (10pcs)	U7670 U7671	Lockout 76T Spur Gear - LD/2,L1 EVO,ST Lockout 71T Spur Gear - LD/2,L1 EVO,ST
U4662	SPEED PACK - M3x4 Grub Screw - Cone Point (10pcs)	U7671 U7725	Pro-Ball Bearing 10x15x4 Sealed - (pr)
U4835	SPEED PACK - M3 Steel Nut Black (pk8)	U7729	Pro-Ball Bearing 10x13x4 Sealed - (pr)
U4862	Black Alloy Washers 0.50mm (pk12)	U7730	Pro-Ball Bearing 4x8x3 Sealed - (pr)
U4987	SPEED PACK May A Button Ltd (pk8)	U7972	C/F 2.0mm Rear Trans Spacer - CAT L1 EVO
U7102	SPEED PACK - M3x4 Button Hd (pk10)	U7975	Alloy Eccentric Mid - (pr) KC,KD,LD/2,L1/EVO,ST



#### **SPARES LISTS**

#### **Option Parts Cont.**

- U7976 Alloy Eccentric Hi-Lo (pr) KC,KD,LD/2,L1/EVO,ST
- U7977 C/F RF Strap Spacer CAT L1 EVO
- U7978 Brass Front Strap L1/EVO
- U7982 Alloy Spring Seat High Off Road (pr)
- U7983 S2 2.0mm Front Topdeck CAT L1 EVO (pr)
- U7998 Ceramic Ball Bearing 5 x 10 x 4 Flanged (pr)
- U8035 Third Slipper Plate ST,KF2,KD,KC,K2,L1,LD
- U8062 Roche Front Driveshaft Short CAT L1/EVO (pr)
- U8065 M3 Alloy Thread Inserts pk8-L1,Mi7,8,E3,E4,A2,Ic/2
- U8334 Alloy LiPo Swivel Mi8 (pr)
- U8359 Rear Only Slipper (ROS) L1-R
- U8360 Slipper Lockout L1-R
- U8381 Alloy Wing Mount L1R
- U8382 Alloy 6 Degree Yokes (pr) L1R
- U8383 Alloy 8 Degree Yokes (pr) L1R U8384 Alloy 10 Degree Yokes (pr) - L1F
- U8384 Alloy 10 Degree Yokes (pr) L1R
  U8385 Alloy Front Hub Carriers (pr) L1R
- U8386 Brass Radio Tray L1R
- U8387 Brass ESC Tray L1R
- U8388 Alloy Rear Link Mount L1R
- U8389 Alloy Rear Hub Carriers (pr) L1R
- U8390 Alloy Diff Conversion V2 L1 EVO,L1R
- U8391 Alloy Diff Complete V2 L1 EVO,L1R
  U8392 Driveshaft Assembled CVD (pr) L1R
- U8393 Alloy Centre LiPo Mount L1R
- U8394 Alloy Side LiPo Mounts (pr) L1R
- U8440 C/F FAB Side Fence LH (pr) L1/EVO/L1R
- U8441 C/F Rear Shock Mount L1R
- U8442 C/F Front Shock Mount L1R
- U8443 C/F Steering Arm 1 Dot (pr) L1R
- U8444 C/F Steering Arm 2 Dot (pr) L1R
- U8445 C/F Steering Arm 3 Dot (pr) L1R
- U8446 Slipper Lockout Layshaft L1R U8447 Slipper Lockout Washer - L1R
- U8448 Slipper Lockout Hub L1R
- U8449 C/F Chassis L1R
- U8450 Front Wisbones Stiff Flex (pr) L1R
- U8451 Front Wishbones Carbon Filled L1R
- U8452 Alloy Front Pivot Block Low L1R (pr)
- U8453 Ti 5.5mm Ball Stud Short (pr)
- U8454 ROS Shaft L1R
- U8455 ROS RH Endplate L1R
- U8456 ROS Front Pulley L1R
- U8457 ROS Rear Pulley L1R
- U8458 ROS C/F Friction Disc (pr) L1R
- U8500 Ti 5.5mm Ball Stud Long (pr)
- U8501 C/F Diff Mouldings V3 L1R

#### **Pinions**

- U7517 Pinion; Long Boss Steel 48dp 17T
- U7518 Pinion; Long Boss Steel 48dp 18T U7519 Pinion: Long Boss Steel 48dp - 19T
- U7519 Pinion; Long Boss Steel 48dp 19T U7520 Pinion; Long Boss Steel 48dp - 20T
- U7521 Pinion; Long Boss Steel 48dp 21T
- U7521 Pinion, Long Boss Steel 48dp 211 U7522 Pinion; Long Boss Steel 48dp - 22T
- U7523 Pinion; Long Boss Steel 48dp 23T
- U7524 Pinion; Long Boss Steel 48dp 24T
- U7525 Pinion; Long Boss Steel 48dp 25T
- U7526 Pinion; Long Boss Steel 48dp 26T
- U7527 Pinion; Long Boss Steel 48dp 27T

#### **Wheels**

- U4365 Wheel; Hex Rear Black Off Road pr
- U4366 Wheel; Hex Rear White Off Road pr
- U4495 Wheel; Hex Front Black 4wd pr
- U4496 Wheel; Hex Front White 4wd pr U7458 Wheel Front 4WD - Neon Yellow v2 - pr
- U7459 Wheel Front 4WD Neon Yellow v2 5pr
- U7460 Wheel Rear Off-Road Neon Yellow v2 pr
- U7461 Wheel Rear Off-Road Neon Yellow v2 5pr U7468 Wheel Front 4WD - White - 5pr
- U7469 Wheel Rear Off-Road White 5pr







CR280 - Titanium Pro Ball Studs - Short (pr) CR282 - Titanium Pro Ball Studs - Long (pr) CR720 - Ti Pro Ball Studs - Ultra Long - pk 2



AX011 - Aerox Alloy Servo Arm - Offset 25T Futaba AX012 - Aerox Alloy Servo Arm - Offset 23T KO/Sanwa





U7404 - Alloy Radius Arms (pr)

U7333 - Stiff Wishbones Rear - (pr) U7490 - CFf Wishbones Rear - (pr)



U7400 - Titanium Low Profile M4 Serrated Nut.





U4890 - Alloy Spring Seat - 2WD/4WD (pr) U7982 - Alloy Spring Seat High - Off Road (pr)

U7418 - 3 Plate Slipper Clutch Conversion U3350 - Gear; CNC 82t Spur - 2/4 Plate Slipper

U3790 - Gear; CNC 76T Spur - Slipper U7417 - 83T 3 Plate Slipper Spur Gear

U7615 - 80T 2,3,4 Plate Slipper Spur Gear U7616 - 78T 2,3,4 Plate Slipper Spur Gear CNC U8035 - Third Slipper Plate

U7434 - Alloy Med Shock Body Kashima Coat (pr) U7435 - Alloy Long Shock Body Kashima Coat (pr)





U7402 - Alloy Wheel Hex (0.75) - (pr) U7403 - Alloy Wheel Hex (1.50) - (pr) U7646 - Alloy Wheel Hex (-.75) - (pr)



U7353 - Front Strap Inserts 8pcs

U7313 - Titanium Turnbuckle - 24mm - Silver (pr) U7317 - Titanium Turnbuckle - 45mm - Silver (pr) U7318 - Titanium Turnbuckle - 53mm - Silver (pr) U7673 - Titanium Turnbuckle - 56mm - Silver (pr)



U7983 - S2 2.0mm Front Topdeck



U7975 - Alloy Eccentric Mid - (pr) U7976 - Alloy Eccentric Hi-Lo - (pr)



U7978 - Brass Front Strap



U7342 - Alloy LH Upper Rear Trans U7343 - Alloy RH Upper Rear Trans U7348 - Alloy LH Upper Front Trans U7349 - Alloy RH Upper Front Trans



U7492 - C/F Front Bumper





U7670 - Lockout 76T Spur Gear U7671 - Lockout 71T Spur Gear



U8062 - Roche Front Driveshaft Short

U8392 - Driveshaft Assembled CVD (pr)



U8334 - Alloy LiPo Swivel



U7356 - Belt 97T x 4mm Wide Polyurethane U7357 - Belt 155T x 4mm Wide





U8065 - M3 Alloy Thread Inserts pk8



U8382 - Alloy 6 Degree Yokes (pr) U8383 - Alloy 8 Degree Yokes (pr) U8384 - Alloy 10 Degree Yokes (pr)



U8388 - Alloy Rear Link Mount



U8390 - Alloy Diff Conversion V2 U8391 - Alloy Diff Complete V2



U8442 - C/F Front Shock Mount



U8359 - Rear Only Slipper (ROS)

U8454 - ROS Shaft

U8455 - ROS RH Endplate

U8456 - ROS Front Pulley U8457 - ROS Rear Pulley

U8458 - ROS C/F Friction Disc (pr)



U8385 - Alloy Front Hub Carriers (pr) U8389 - Alloy Rear Hub Carriers (pr)



U8440 - C/F FAB Side Fence LH (pr)



U8450 - Front Wisbones Stiff Flex (pr) U8451 - Front Wishbones Carbon Filled (pr)



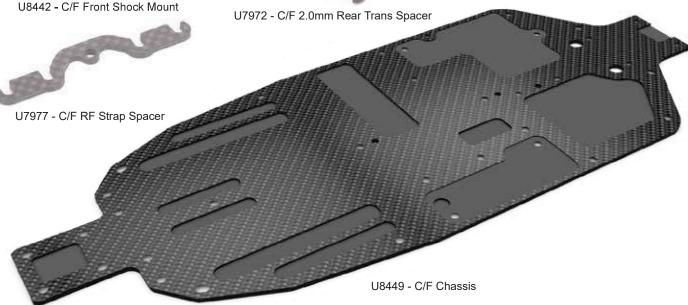
U8381 - Alloy Wing Mount



U8386 - Brass Radio Tray U8387 - Brass ESC Tray



U8393 - Alloy Centre LiPo Mount U8394 - Alloy Side LiPo Mounts (pr)





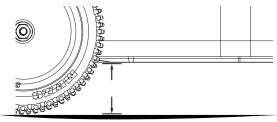
# TRACK SETTINGS

#### **RIDE HEIGHT**

Use the spring adjusters on the shock absorbers to adjust the front and rear ride heights. With the car level, we recommend setting the ride height between 16-18mm on astro, 20-21mm on dirt and 12-14mm on

This is measured between the bottom of the chassis and the ground with the car in running trim. First press the car down on to the ground and release it once or twice to settle the suspension before adjusting the ride height. The chassis should be level when viewed from the side. Adjusting the spring collars does not increase or decrease the spring stiffness only the preload.

If the suspension needs to be softer or harder change the spring.

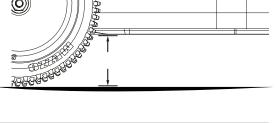


#### **REAR TOE INSERTS**

The base setting for rear toe in is 3°, this is a good compromise between forward traction and the car binding in the turns. This setting is fine for most tracks. You can alter the toe in by changing the toe in inserts. If you are running too much toe in, your car may suffer from instability at high speeds. Decreasing the toe in will reduce forward traction but will free the car up in the turns. Usually the team use less toe in on high grip tracks and more for low grip tracks.

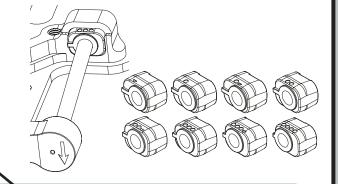
A good starting position is 1.5° on carpet and 4.0° on low grip dirt and wet

The eight blocks have indicators on top of them to show the amount of toe-in each one has. The range is 0.5° to 4.0°.



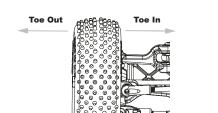
#### See Page 14 Bag D - Step 34

See Page 06 Bag B - Step 13b



#### **FRONT TOE**

Front toe should be set to 0° (both front wheels pointing straight ahead) this will be the best setting for most track conditions. Adding toe out will increase initial turn in and make it smoother to drive on power. The team generally run 1° toe out.



#### FRONT SHOCK MOUNT

See Page 11 Bag C - Step 25

The kit setting on the front shock mount is position 2. Moving the shock outwards will make the car react faster and increase the initial steering response, it will however stiffen the suspension which may require an oil and spring change so that the cars suspension feels the same. Moving the shock inwards will soften the suspension and slow down the steering reaction and make the car smoother on bumpy tracks. Again you may need to alter the oil and spring combination to get the suspension correct again.

If you are occasionally lifting a rear wheel, the front shock may be too laid over. Standing the front shock up can fix this.



See Page 10 Bag C - Step 24

See Page 16 Bag D - Step 37

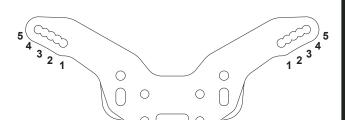
See Page 14 Bag D - Step 32

See Page 06 Bag B - Step 13c



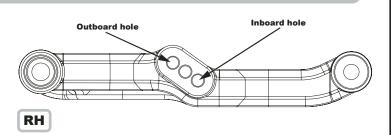
#### **REAR SHOCK MOUNT**

The second hole on the shock mount (2) gives best all round results. Moving the shock to the inboard position increases on power steering and reduces initial steering. Moving the shock to the outer holes will stiffen the suspension, increasing initial steering and forward drive but could cause the rear wheel lifting. Moving the shock to these holes may require an oil or spring change to maintain the suspension performance.



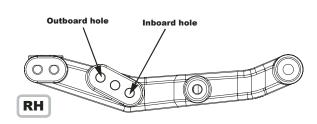
#### FRONT WISHBONE SHOCK MOUNTING HOLE

The middle hole on the wishbone is the standard setting for most tracks. Moving the shock to the outer hole makes the car more reactive and increases suspension stiffness. Using the inner hole makes the car less reactive. This setting also makes the front end softer. Changes to the springs and dampers may be required for different mounting holes. Anti-roll bars can also be changed to suit mounting position.



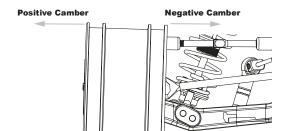
#### **REAR WISHBONE SHOCK MOUNTING HOLE**

The middle hole works best for most track conditions giving good traction and drive through the turns whilst maintaining good stability over the bumps. Moving to the outer hole on the wishbone will decrease traction but will allow the rear to free up more in the turns. This setting would usually only get used on high grip tracks and when moving the shock out you may have to change the oil and spring settings to get the same suspension feel. If the grip level is low and the track is bumpy, try the inside hole with harder springs and thicker oil. This should help improve the handling.



#### **REAR CAMBER**

The usual team setting for static rear camber is between -1.0° and -1.5° at ride height (the top of the tyre leaning inwards towards the car). If more rear grip is required, increase camber to between -2.0° and -3.0°. When racing on high grip dirt, with squarer profile tyres, use between -0.80° and -1.0° rear camber to keep the contact patch consistent with the surface.

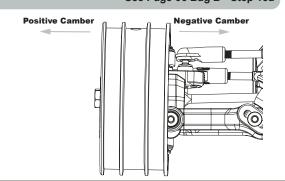


### FRONT CAMBER

The usual team setting for static front camber is between -1.0° and -2.0° negative at ride height (the top of the wheel is leaning inwards towards the car). If more front grip is required, increase camber to between -2.0° and -2.5°.

When racing on high grip dirt, with squarer profile tyres, use between -0.80° and -1.0° front camber to keep the contact patch consistent with the surface.

#### See Page 06 Bag B - Step 13a



See Page 11 Bag C - Step 25

See Page 14 Bag D - Step 32



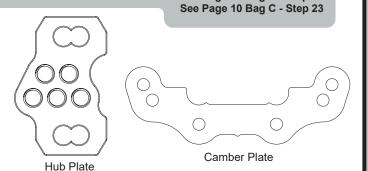
#### **FRONT CAMBER LINKS**

The kit settings for the front camber link position (2) and length are used by the team for most tracks. A shorter front link will make the car roll less and speed up the cars initial steering response. This is a better choice for bumpy, low grip tracks.

A longer front link makes the front of the car roll more and offers less steering reaction at high speed. We would recommend this on fairly smooth high grip tracks. Lowering the ball height will offer more grip to the front, but can make the car feel more edgy (similar to shortening the link).

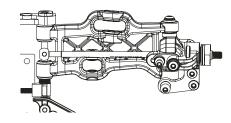
#### **REAR CAMBER LINK**

The kit setting for the rear camber link is the best compromise for most tracks. The outboard link option on the camber plate gives good stability and straight line traction while allowing the rear of the car to free up on high speed turns. This reduces power on understeer on high grip tracks. Shortening the rear camber link will make the rear of the car roll less in the corners, and square up faster when accelerating away from tight turns, longer links are generally used on high grip tracks and shorter links on low grip tracks. Lowering the inside ball stud will generate more grip, but reduce steering.



#### **FRONT WHEELBASE**

Moving the front wishbones backwards offers more load transfer when loading up the front going into the corner. This will promote more steering in general as there is more load over the front wheels. This change also means the drive shaft angle has increased, so naturally gives the car more drive. But all of that comes at the price of bump handling. A softer damper setup would be used in this case.



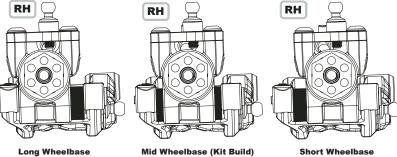
#### **REAR WHEELBASE OPTIONS**

See Page 14 Bag D - Step 32

See Page 14 Bag D - Step 34

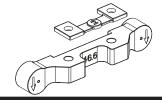
See Page 13 Bag D - Step 31

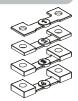
The CAT L1R has 3 wheelbase options at the rear, short, med and long. The adjustment is provided by re positioning the kwik clips on the outer wishbone pin. Moving the rear hub carrier forwards will give more traction at the expense of stability over rough sections of the track, and moving the hub carrier to the middle or rear position usually improves stability over the rough sections, running the car in long wheelbase form also free's up the car on sweeping sections of the track. Generally you will run long wheelbase on carpet, mid on astro and short on dirt.



#### **REAR ANTI SQUAT SPACERS**

The Kit build anti squat is set at 2°. This works best on most tracks, and with the included parts can be increased or decreased. Generally less anti squat allows the suspension to work better over the large bumps and gives more power on steering. Reducing the anti squat makes the car handle better over small ripples, but not so good on the tracks with large bumps.







#### **HIGH ROLL CENTRE**

The kit is built with the front hinge pin in the high position. This pulls the front end out of the corner harder and gives the feeling of drive. The lower setting is preferred on carpet as it makes the front roll more initially and in turn helps the car flow through high speed corners better.

Higher rear roll centre (arrows up on the rr strap) using option **U8453** - **C/F Rear Strap Spacer** - **L1R** will support the rear of the car more and suits high grip tracks the most. Using it in dirt, the team find you get more forward drive and makes the car more agile.

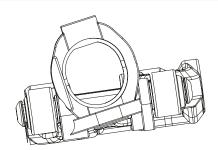
See Page 14 Bag D - Step 34
See Page 07 Bag B - Step 14

See Page 12 Bag C - Step 29

See Page 13 Bag D - Step 31

#### **FRONT YOKE**

The kit build uses Medium Flex 10 degree yokes, with options of 6, 8 and 10 degree alloy versions. When using one of the alloy options the team generally uses 8 degreee yokes. Decreasing the angle offers more initial steering and on power stability. Increasing the angle increases stability into the corner and gives more on power steering. More caster improves bump handling.



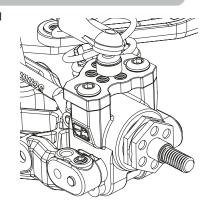
#### FRONT & REAR HEX WIDTH

See Page 13 Bag C - Step 30 & Page 14 Bag D - Step 33

The base setting gives the best balance between steering and stability. Using a wider front hex will make the car more aggressive. Using a wider rear hex will help with more forward drive and initial turn in. Narrowing the rear will give more on power steering and increase side traction.

REAR HEX OPTIONS							
Part Number Hex Car Width Change							
U8429	-1.50	Kit Build					
U7646	-0.75	1.5mm Wider					
U7398	0.00	3.0mm Wider					

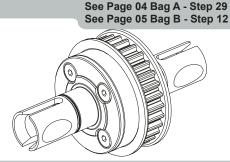
FRONT HEX OPTIONS						
<b>Part Number</b>	Hex	Car Width Change				
U7646	-0.75	1.5mm Narrower				
U7398	0.00	Kit Build				
U7402	0.75	1.5mm Wider				
117403	1.50	3 0mm Wider				



#### **GEAR DIFFERENTIAL**

Geared Diffs can give variable driving characteristics. The handling of the diff is tuned by changing the oil. A recommended starting point is 12,000 cSt (CR229). Recommended option oils would be 10,000 cSt (CR222) and 7,000 cSt (CR221). Running 4 gears will give less drive and off power steering. It will also make the car drive out of the corner with a smoother arc. A 2 gear diff will make the car drive out of the corner squarer and feel like it has more drive. 2 gear diffs are also more aggressive on steering and rotation. Use 7,000cSt on high grip tracks, if you start spinning a wheel on power, go up on oil until it stops.

We recommend changing the oil less often when running 4 gears.



### DIFFERENTIAL HEIGHT

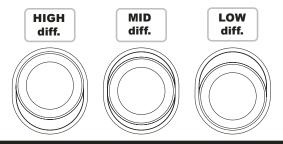
See Page 10 Bag C - Step 22

The base diff height setting is High at the rear and Low at the front. Lowering the rear diff increases the traction in low grip conditions like on dirt surfaces.

Lowering the front diff increases traction but has the additional affect of increasing steering.

Running the diff high on carpet will help remove side grip.

On more open tracks a lower diff will help increase corner speed.





#### **REAR HUB HEIGHT**

See Page 14 Bag D - Step 32

The kit hub position is +0.5mm (Insert B) hub height.

Decresing hub height will add some side grip and make the car feel like it rolls more.

If you increase the height the car will feel like it rolls less and has less side bite. This will also help the car drive out of the corner. When using suspension inserts that give more than +1.0mm hub height, shock length and shock stroke must be corrected. To correct the stroke, add an O'Ring to the shock shaft above the spring seat. The length of the shock should be increased by unscrewing the shock socket by the difference between the chosen hub height and the kit setting.

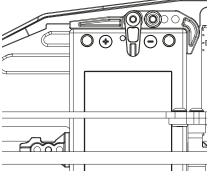
Wide Pin						
Suspension Inserts	Hub Height					
	0.0mm					
	+0.5mm					
© C ○	+1.0mm					
	+1.5mm					
0000	+2.0mm					
0880	+2.5mm					
0 A A O	+3.0mm					

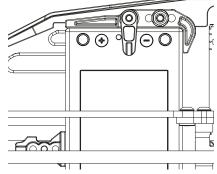
Narrow Pin							
Suspension Inserts	Hub Height						
$\begin{array}{c c} A \odot \\ \hline \end{array}$	0.0mm						
	+0.5mm						
$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	+1.0mm						
	+1.5mm						
$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	+2.0mm						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	+2.5mm						
	+3.0mm						

#### **LIPO POSITION**

See Page 07 Bag B - Step 14

There are 2 shorty LiPo positions to fine tune the chassis. The team generally run the forward position as it gives the best balance. Sometimes it is moved back to calm down the rear of the car.

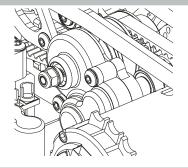




#### F.A.B.

See Page 09 Bag B - Step 20

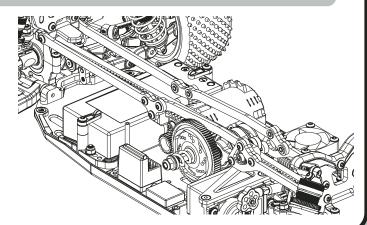
The front adjustable brake (F.A.B.) should be set tight with a small amount of slip to stop the car loading up the front too much and causing grip roll. As you loosen the F.A.B. you will get more initial steering but reduced braking.



#### **TOPDECKS**

See Page 17 Bag D - Step 39

The kit topdecks provide a well balanced car with good steering response. The team generally use the option **U7983** - S2 2.0mm Front Topdeck to increase the chassis flex and offer a more forgiving car to drive.

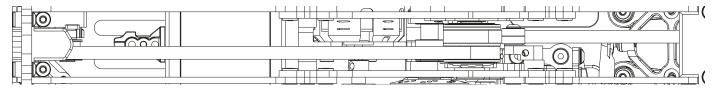




#### **BELT SETTINGS**

See Page 17 Bag D - Step 39

It is important to run the front belt tighter than the rear. It is also important not to overtighten the rear belt as it will promote a rear braking action and on lower grip surfaces you will find the back of the car unstable when off power. A tiny amount of belt skip on the upslope of the jump when the chassis is flexing is ok, if you overtighten the rear belt you will suffer failures.

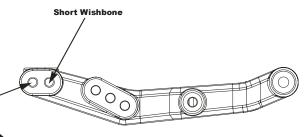


#### **VARIABLE LENGTH REAR WISHBONES**

See Page 14 Bag D - Step 32

The base setting is long wishbone. This setting gives the most on power steering and is the most stable on landing from jumps. The short wishbone setting will give more rear grip on loose surfaces. When running this setting you need to soften the suspension.

Long Wishbone



#### **GEAR RATIO (2.45:1)**

See Page 09 Bag C - Step 21

#### **Pinion Gear**

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
83	11.96	11.30	10.70	10.17	9.68	9.24	8.84	8.47	8.13						
82		11.16	10.57	10.05	9.57	9.13	8.73	8.37	8.04	7.73					
80				9.80	9.33	8.91	8.52	8.17	7.84	7.54	7.26	7.00			
78						8.68	8.31	7.96	7.64	7.35	7.08	6.83	6.59	6.37	
76								7.76	7.45	7.16	6.90	6.65	6.42	6.21	6.00
71													6.00	5.80	5.61

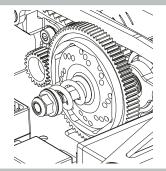
**Tooth Sum 100 Minimum to 108 Maximum** 

#### **SLIPPER CLUTCH**

Spur Gear

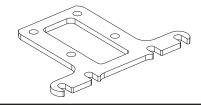
See Page 09 Bag C - Step 21

On most tracks it is best to start with the slipper on a **LOOSE** setting, and gradually tighten the spring tension until you achieve the most consistent drive away from turns without spinning the car or pulling wheelies. Make sure you still have enough drive when launching the car from the up ramps. WARNING, do not run the slipper too loose as it could melt the plastic spur gear, also too tight may damage the transmission parts. If you are generating too much heat at your preferred setting, use **U7418 - 3 Plate Slipper Conversion** this will give you a more durable slipper clutch.



#### **GEARBOX HEIGHT**

The team use the **U7972 - C/F 2.0mm Rear Trans Spacer** when racing on carpet tracks. It allows the rear ride height to be low while maintaining good geometry angles. This allows it to land large jumps better and stays very flat in the corner.





#### FRONT YOKE AND HUB HEIGHT

By changing these settings, axle height will be adjusted. the yoke holes move the axle height 3.5mm and the hub height adjusts the axle height based on the washers used.

Changing the height of the yoke also changes the front link angle which can be compensated for using washers.

Raising the axle will increase on power steering, decrease initial steering and give a safer car under braking.

Lowering the axle will increase initial steering.

If the car is breaking traction out of corners it's a sign of the axle being too high or too much castor angle.

#### ADJUSTABLE RAKE ANGLE AND TRACK WIDTH

Less rake increases on power steering but decreases off power stability. More rake increases driveability in bumpy sections and increase driveability in corners. Using the inserts in the narrow position increases steering and the wide setting increases stability. The kit suspension inserts offer 8° or 10° rake, as shown in the right hand table.

12° of rake can be achieved by using **U8452 - Alloy Front Pivot Block Low** and **U7353 - Front Strap Inserts**, as shown in the table below.

Suspension Inserts	Suspension Setting	Wheelbase Washer (D&E)	Track Spacer (B&C)
	12° Rake Narrow Track	2.4mm White	No Spacer
	12° Rake Mid Track	2.4mm White	0.5mm
	12° Rake Wide Track	2.4mm White	1.0mm

#### See Page 13 Bag D - Step 31

See Page 12 Bag C - Step 29

Suspension Inserts	Suspension Setting	Wheelbase Washer (D&E)	Track Spacer (B&C)
900	8° Rake Narrow Track	2.8mm Black	No Spacer
	8° Rake Mid Track	2.8mm Black	0.5mm
9	8° Rake Wide Track	2.8mm Black	1.0mm
	10° Rake Narrow Track	2.4mm White	No Spacer
5 5	10° Rake Mid Track	2.4mm White	0.5mm
7 8	10° Rake Wide Track	2.4mm White	1.0mm

#### **ACKERMANN**

The kit build position of number 1 offers the smoothest feel for the steering. Positions 2 and 3 will make the car feel more aggresive with 3 being the most aggresive.

Running the outer kit hole (5) makes the steering more reactive. Position 4 (radius arms parallel) will cause a slower steering response.

#### ANTI-ROLL BARS (SWAY BARS) \*Options

See Page 15 Bag D - Step 36

See Page 12 Bag C - Step 27

Anti-roll bars are an often overlooked set up aid that allows fine tuning of the suspension without major changes to the shock and spring settings. They are mainly used to add roll stiffness to the car without affecting the handling on bumps and jumps. Running anti-roll bars allows you to run softer suspension on bumpy tracks while reducing the roll in corners, thus maintaining stability through the turns. Softening the front bar will allow the front to roll into the corner more and give the feeling of more initial steering. You may find you lift up a rear wheel so you may need to change it back or soften the rear bar. A stiffer front bar will smooth out the steering and can be used to reduce grip roll due to it scrubbing off some grip.

A harder rear bar will make the car drive flatter through the corners and feel like it has more inital steering aswell as better forward drive. A softer rear bear will make the car roll more but you may need to stiffen the roll in another place if the car becomes too lazy.

### **REAR WING & FRONT WINGS \*Options**

Both the front and rear wings will add downforce to the the car. Trimming the gurney on the rear wing will reduce the downforce.

If the front of the car goes high over the jumps cut away the gurney on the rear wing until stable flight is achieved. Adding the front wing will increase front downforce and help keep the nose down when jumping.



See Page 19 - Step 42



#### TYRES, WHEELS & INSERTS



#### Rear Mini Pin 2

U6803 - Blue Compound (pair) U6804 - Yellow Compound (pair) U6805 - Silver Compound (pair)

#### Front Mini Pin 2

U6821 - Yellow Compound (pair) U6517 - Blue Compound (pair)

U6557 - Yellow Compound (pair) U6762 - Silver Compound (pair)



Rear 2.2" Full Spike U6596 - Yellow Compound (pair)



Mezzo

U6885 - Yellow Compound (pair) U6886 - Silver Compound (pair) U6887 - Blue Compound (pair)

#### Front Mezzo

U6888 - Yellow Compound (pair) U6889 - Silver Compound (pair) U6890 - Blue Compound (pair)

Yellow Compound Tyres White 12mm Hex Wheels Rear

**Pre-Glued** 

#### **Front**

**U6791** - Mini Pin **U6793** - Mini Spike2 U6812 - Stagger Rib

U6834 - Mini Dart U6841 - Cactus

U6874 - Honeycomb **U6893** - Mezzo

U6898 - Cactus Fusion 2

## Tyres



Rear Mini Pin

U6608 - Yellow Compound (pair) U6518 - Blue Compound (pair)

#### Front Mini Pin

**U6601** - Blue Compound (pair) **U6607** - Yellow Compound (pair) U6777 - Silver Compound (pair)

> **Rear Cactus** U6838 - Yellow Compound (pair) U6842 - Silver Compound (pair) U6844 - Blue Compound (pair) Front Cactus U6840 - Yellow Compound (pair) U6843 - Silver Compound (pair)

U6845 - Blue Compound (pair)

**Front Cactus Fusion** 

U6855 - Yellow Compound (pair)

U6858 - Silver Compound (pair)

Front Cactus Fusion 2

U6895 - Yellow Compound (pair)

U6896 - Blue Compound (pair)

**U6794** - Mini Spike2

**U6806** - Mini Pin 2

**U6818** - Mini Pin 1

U6875 - Honeycomb

U6835 - Mini Dart

U6839 - Cactus

**U6891** - Mezzo



Front Stagger Rib

U6810 - Yellow Compound (pair) **U6811** - Silver Compound (pair) **U6846** - Blue Compound (pair)

# **Wheels**

#### **Neon Yellow**

**U7460** - Rear (Pair) **U7461** - Rear (5 Pairs) U7458 - Front (Pair) U7459 - Front (5 Pairs)

#### White

**U4366** - Rear (Pair) **U7469** - Rear (5 Pairs) **U4496** - Front (Pair) U7468 - Front (5 Pairs)

U4365 - Rear (Pair) U4495 - Front (Pair)





Rear Mini Pin 1

U6817 - Yellow Compound (pair) U6819 - Blue Compound (pair) U6820 - Silver Compound (pair)



**Rear Honeycomb** 

U6863 - Yellow Compound (pair)

### **Front Honeycomb**

U6861 - Yellow Compound (pair)



**Rear Mini Dart** 

U6826 - Yellow Compound (pair) U6829 - Blue Compound (pair) U6832 - Silver Compound (pair)

#### **Front Mini Dart**

U6825 - Yellow Compound (pair) U6828 - Blue Compound (pair) U6831 - Silver Compound (pair)



Rear Mini Spike 2 U6516 - Green Compound (pair) U6518 - Blue Compound (pair) U6558 - Yellow Compound (pair)

#### U6763 - Silver Compound (pair) Front Mini Spike 2

U6515 - Green Compound (pair) U6517 - Blue Compound (pair) U6557 - Yellow Compound (pair) U6762 - Silver Compound (pair)



**Front Med** 

**U6733** - Med (pair) MC0001 - Cragg KWF (pair) CR688 - Closed Cell (pair) JC8130 - Hard (pair)



Rear

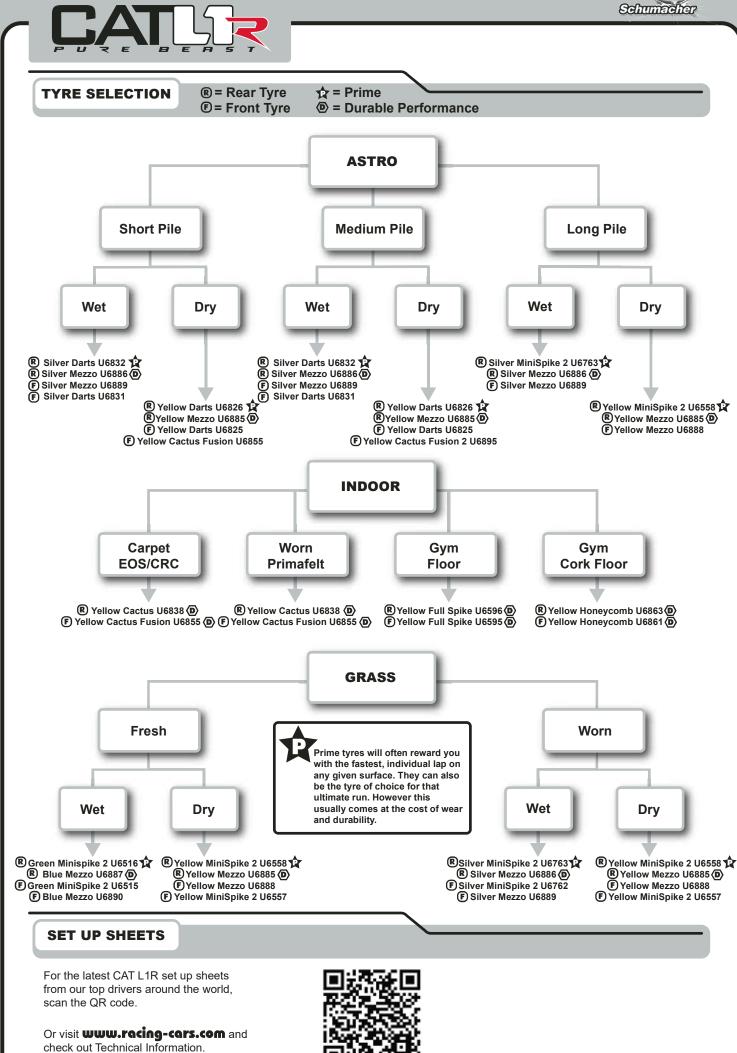
U6653 - Hard (pair) U6668 - Soft Ultra Wide (pair) U6669 - Hard Ultra Wide (pair) U6734 - Med (pair) U6747 - Med Tubby (pair)

MC0002 - Cragg KWF (pair) CR687 - Closed Cell (pair) JC8131 - Hard (pair)

For the full and latest range of off-road tyres, scan the QR code.

Or visit www.racing-cars.com and check out Products > Wheels & Tyres.

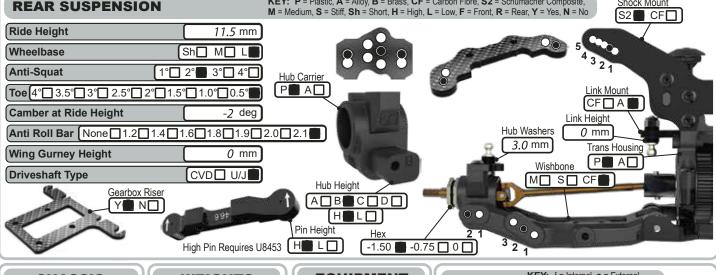


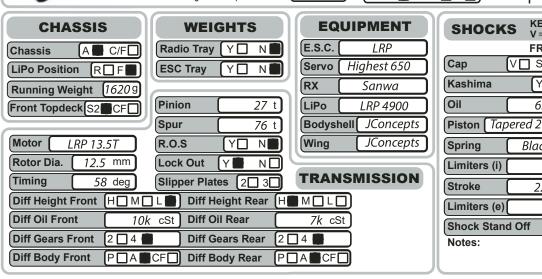


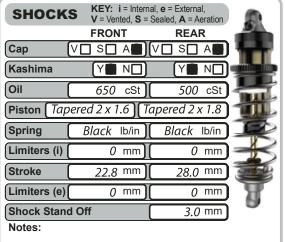


ĻĄĮĻ	Driver: Kit Build	Date:	Event/Track:	
	Qualify:	Final:	Best Lap:	
TRACK TYPE	TYRES	FRONT	REAR	Notes: Front ARB
Grip Level High Medium	Low	Fusion 2	Mezzo	Carpet and Astro = 1.8mm
Type Tight Open M	Mixed Wheels	Kit	Kit	Wet astro and Clay = 1.4mm
Condition Flat ■ Bumpy ■ M	lixed Inserts	Med	Med	
Surface Clay Long Astro C				
Grass Short Astro	Mixed ☐ See	e pages 33 and 34 for ty	re guidance.	
Weather				
FRONT SUSPENSION			= Brass, <b>CF</b> = Carbon Fibre, <b>S2</b> = Sort, <b>H</b> = High, <b>L</b> = Low, <b>F</b> = Front, <b>R</b>	= Rear, <b>Y</b> = Yes, <b>N</b> = No
Ride Height	mm	2 1		dius Arm
Wheelbase	Long Short		6° □ 8° □ 10° ■	343
	0 deg In Out		10	Trans Housing
Camber at Ride Height  Anti Roll Bar None 1.2 1.4		72.1	Hub Carrier 2 3	P A
Hub Height	H L			5 4 Link Height
Bump Steer Washers	0 mm			2.0 mm 1 2 3 8
Hingepin Height	HELD	Rake		M S CF
Driveshaft Type	Roche U/J	■10° □12° □		001
Steering Arm Kit 1 Dot	2 Dot 3 Dot 1		1	
Narrov	Track  Mid Wide	9 0	2	
Front Strap  A B B	Uo	He -0.7	75 🔲 0 🔳 0.75 🔲 1.50 🖸	Bumper S CF
REAR SUSPENSION			= Brass, <b>CF</b> = Carbon Fibre, <b>S2</b> = 9 ort, <b>H</b> = High, <b>L</b> = Low, <b>F</b> = Front, <b>R</b>	
Ride Height	mm		<b>3</b>	
Wheelbase	Sh M L			4 3
Anti-Squat 1		Hub Carrier		21
<b>Toe</b> 4° □ 3.5° □ 3° ■ 2.5° □ 2° □	1.5° 1.0° 0.5° L	P A D		Link Mount  CF A
Camber at Ride Height	1.5 deg	APA		Link Height
Anti Roll Bar None 1.2 1.4	1.61.8 <b></b> _1.92.0[	2.1		Hub Washers 2.0 mm
Wing Gurney Height	10.5 mm			3.0 mm Trans Housing P A D
Driveshaft Type	CVD U/J	Hub Height	10	M S CF
Gearbox Riser Y N		A B C		
	1 99t	H ■ L □ Pin Height He		
	High Pin Requires U8453	$\overline{}$	ex / 2 1 .50 -0.75 0 0	321
CHASSIS	WEIGHTS	EQUIPM	SHOCK	S KEY: i = Internal, e = External, V = Vented, S = Sealed, A = Aeration
	adio Tray Y N	E.S.C.	Cap	FRONT REAR
	SC Tray Y N	Servo RX	Kashima	Y N Y N
Running Weight 9	nion t	LiPo	Oil	550 cSt 400 cSt
	our 83 t	Bodyshell		nite 1.6 2 Hole White 1.8 2 Hole
	o.s Y□ N■	Wing	Spring	Blue 3.7 lb/in Green 2.2 lb/in
	ock Out Y N		Limiters (i)	0 mm 0 mm
	ipper Plates 2 3	TRANSMIS		22 mm 28.5 mm
Diff Height Front H M L	Diff Height Rear H	MUL	Limiters (e)	0 mm 1 0'Ring 1.8 mm
Diff Oil Front 12,000 cS	St Diff Oil Rear	12,000 cSt	Shock Stand	
Diff Gears Front 2 4 1	Diff Gears Rear 2		Notes:	
Diff Body Front P A CF	Diff Body Rear	■A □CF□		

		SET U	P SHEET			Seliminechen
CAILIR	Driver: Tristrar	n Neal Dat	e: 17/11/22	Event/Trac	k: Florida Carpet Char	npionship 13.5T
	Qualify: B1	Final:	A9	Best Lap:		
TRACK TYPE  Grip Level High Medium  Type Tight Open Mi  Condition Flat Bumpy Mi  Surface Clay Long Astro Ca  Grass Short Astro M  Weather Indoor	xed Wheels xed Inserts nrpet Notes:	JC Fuzz Bit	e ) [ JC	REAR Fuzz Bite Concepts Concepts art of tread.	Notes: Ran a chassis skin a chassis skin wo 4mm belts	n. Ride height without uld be 12mm
FRONT SUSPENSION Ride Height	11.5 mm		f, <b>Sh</b> = Short, <b>H</b> = High	Yoke	= Schumacher Composite, R = Rear, Y = Yes, N = No Radius Arm	Shock Mount S2 CF
Wheelbase	Long Short	2 1	6	P A A L	P A	5400
Toe 1.0  Camber at Ride Height	deg In Out 1.5 deg			Carrier 2 8	Tra	ns Housing
Anti Roll Bar None 1.2 1.4		2.0 2.1	P	Carrier 3	5 4 P	■ A□
Hub Height	H				Link Height  4.0 mm	1 8
Bump Steer Washers	(H□L	Rake			Wishbone M S CI	a state of the sta
Hingepin Height  Driveshaft Type	Roche U/J	8° 10° 12° [			(	
<u> </u>	2 Dot  3 Dot		0 1	The same of		
Front Strap Narrow	Track Mid Wide	•0	2 Hex -0.75 🔲 0 [	0.75 1.50		nper
REAR SUSPENSION					= Schumacher Composite, <b>R</b> = Rear, <b>Y</b> = Yes, <b>N</b> = No	Shock Mount S2 CF
Ride Height	11.5 mm				00 5	
Wheelbase Anti-Squat 1°	Sh		8 • 8		4 3	21
Toe 4° 3.5° 3° 2.5° 2°		Hub Carrier			Link	Mount
Camber at Ride Height	-2 deg		Total Control	_	CF Link Heid	nht
Anti Roll Bar None 1.2 1.4	1.6 1.8 1.9	2.0 2.1		0	Hub Washers 0 m	







### **SET UP SHEET**

Seliumachen

CATUR	Driver:	Date:	Event/Track:	
	Qualify:	Final:	Best Lap:	
TRACK TYPE	TYRES	FRONT	DEAD	Notes:
Grip Level High Medium L	_ow	FRONT	REAR	
Type Tight Open Mi.	wheels			
Condition Flat Bumpy Mi	xed Inserts			
Surface Clay Long Astro Ca	rpet Notes:			
Grass Short Astro M	ixed			
Weather				
FRONT SUSPENSION		Y: P = Plastic, A = Alloy, B = Br Medium, S = Stiff, Sh = Short, I		
Ride Height	mm	2.4		dius Arm
Wheelbase	Long Short	2 1		54
Toe	deg In Out	(00 )	10	Trans Hausing
Camber at Ride Height	deg	7047	Hub Carrier 2 3	Trans Housing P A
Anti Roll Bar None 1.2 1.4				5 4 Link Height
Hub Height  Bump Steer Washers	(H L L )	4	景	mm 1
Hingepin Height		Rake		Wishbone S CF
Driveshaft Type	Roche U/J	10°12°	- ( )	
Steering Arm Kit 1 Dot 1	2 Dot 3 Dot 1			
Narrow	Track Mide Mide		10111 (23011)	
Front Strap	- Wide -	Hex -0.75	\ 0	Bumper S CF
		-0.73	0 0.70 1.50	
REAR SUSPENSION		Y: P = Plastic, A = Alloy, B = Br Medium, S = Stiff, Sh = Short, I		
Ride Height	mm	-0	_	
Wheelbase	Sh M L	7 63	Ω	5 4 3
Anti-Squat 1°[		Hub Carrier	8	21
Toe 4° 3.5° 3° 2.5° 2° 1	.5° 1.0° 0.5°			Link Mount
Camber at Ride Height	deg	1/2/102	A	Link Height
Anti Roll Bar None 1.2 1.4	]1.6[]1.8[]1.9[]2.0[	□2.1□)		Hub Washers mm Trans Housing
Wing Gurney Height	mm			Wishbone P A
Driveshaft Type	CAD N/1	Hub Height / Insert		M S CF
Gearbox Riser Y N		A B C D		
	991	Pin Height Hex		
	High Pin Requires U8453		-0.75 0 0 0	21
CHASSIS	WEIGHTS	EQUIPMEN	<b>SHOCK</b>	V = Vented, S = Sealed, A = Aeration
	dio Tray Y N	E.S.C. Servo	Cap	FRONT REAR
	C Tray Y N	RX	Kashima	Y N Y N N
Running Weight 9 Front Topdeck S2 CF Pin	ion t	LiPo	Oil	cSt cSt
Spi		Bodyshell	Piston	367)
Motor R.C		Wing	Spring	lb/in lb/in
	k Out Y N		Limiters (i)	mm) mm
Timing deg Slip	oper Plates 2 3	TRANSMISSI		mm) mm
Diff Height Front H M L			Limiters (e)	mm) mm
Diff Oil Front cSt		cSt	Shock Stand	d Off mm
Diff Gears Front 2 4		<u>4</u> <u></u>	Notes:	
Diff Body Front PACF	Diff Body Rear	A CF		