

SERPENT 960

1/8TH SCALE 4WD COMPETITION CAR



REFERENCE GUIDE

SERPENT

INTRODUCTION

PARTS LIST & EXPLODED VIEWS

The parts list and the exploded views for the Serpent 960 are separate from the Instruction Manual. The exploded views show all the parts for a particular assembly step, together with the Serpent part number. In the parts list at the back of this Reference Guide you will find the part number and the name of the part. In addition to all the Serpent 960 parts used in this car kit, you will also find lists of option parts for the Serpent 960, as well as a general items (such as fasteners) and promotional items.

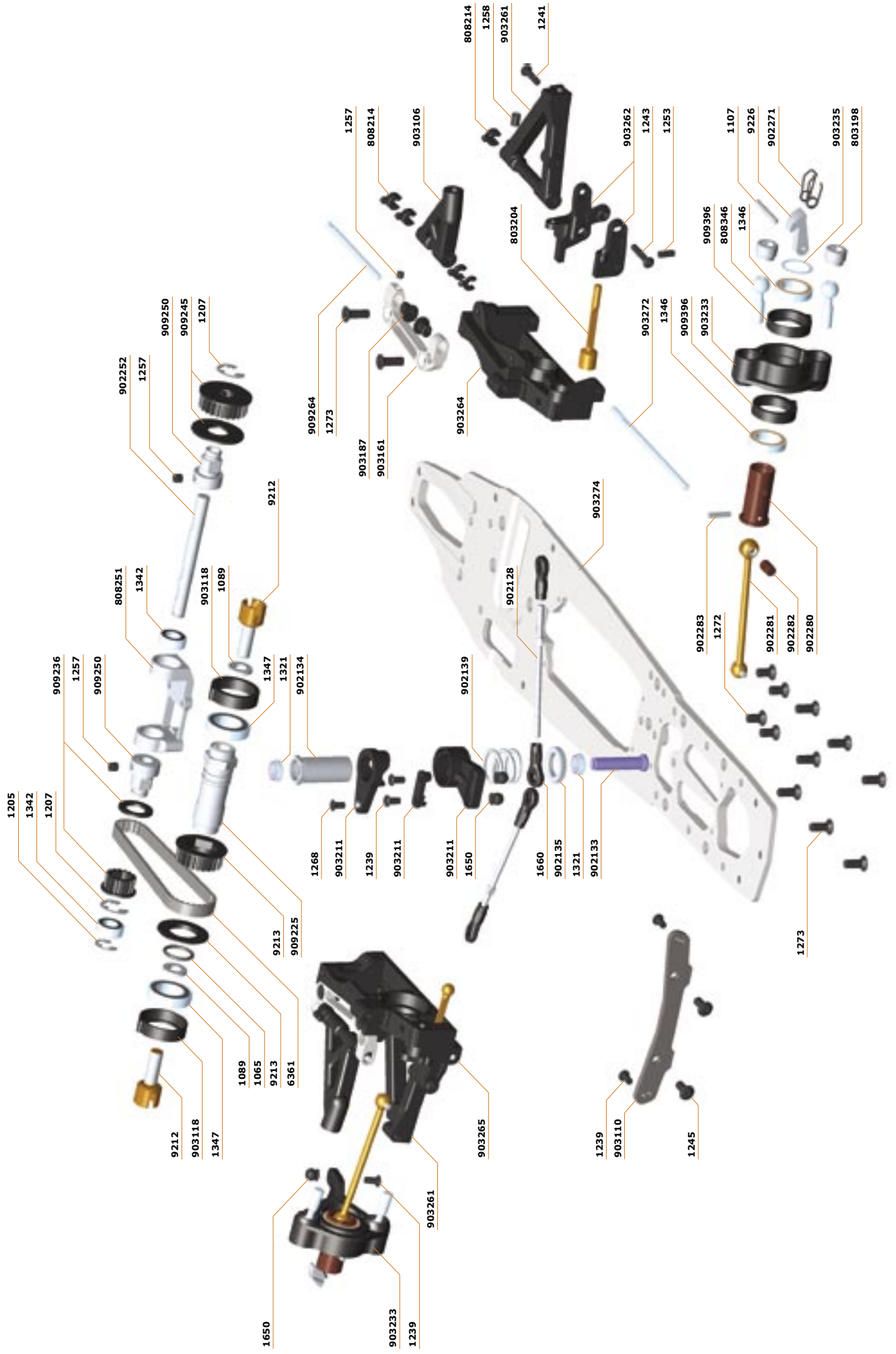
Serpent will regularly update the Serpent 960 parts list and will make it available on the Serpent 960 product page at Serpent.com. Be sure to check the Serpent 960 product page at Serpent.com frequently. All information about the 960 can be found here: publications, news items, set-ups, FAQ's, images, downloads, videos, and interesting forums in several languages. Serpent.com provides you with an enormous amount of interesting and often valuable information about the Serpent 960; information is provided by Serpent, its factory and team drivers, and experienced

racers from around the world. Often this information is even available in several languages! If you're not a member of Serpent.com yet, sign up today and experience why Serpent excels not only on the track, but also on the Internet.

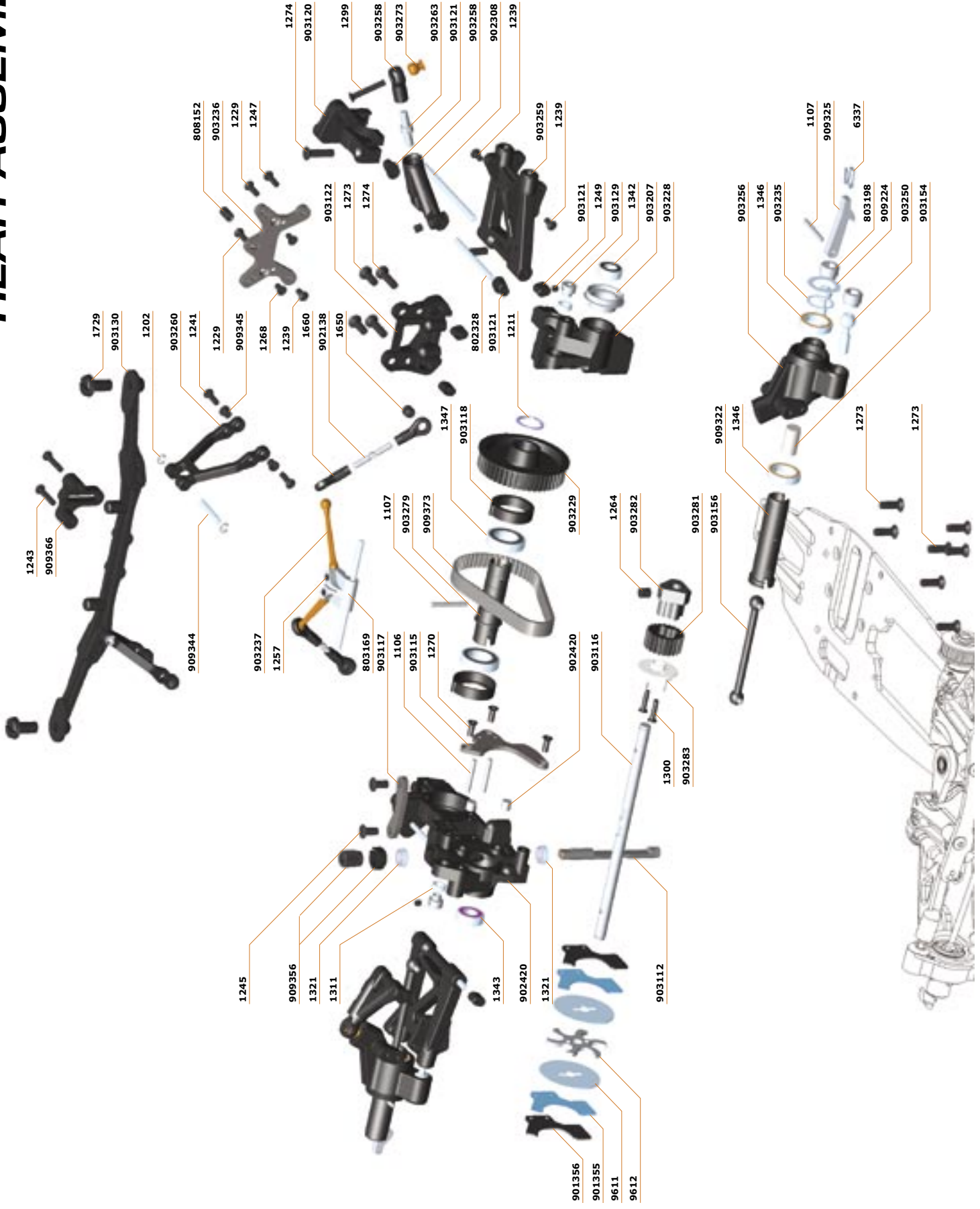
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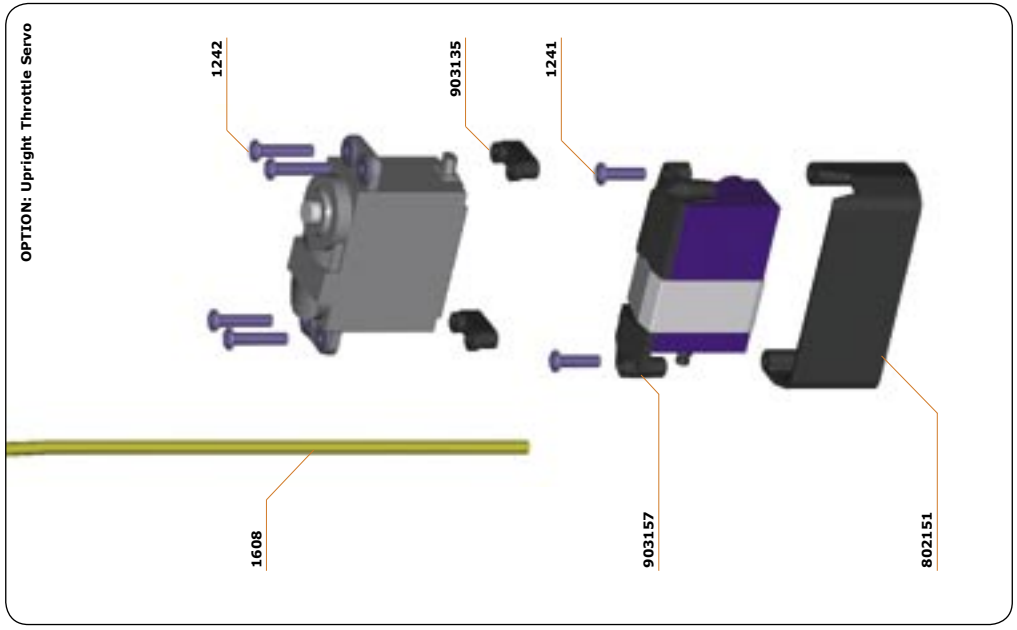
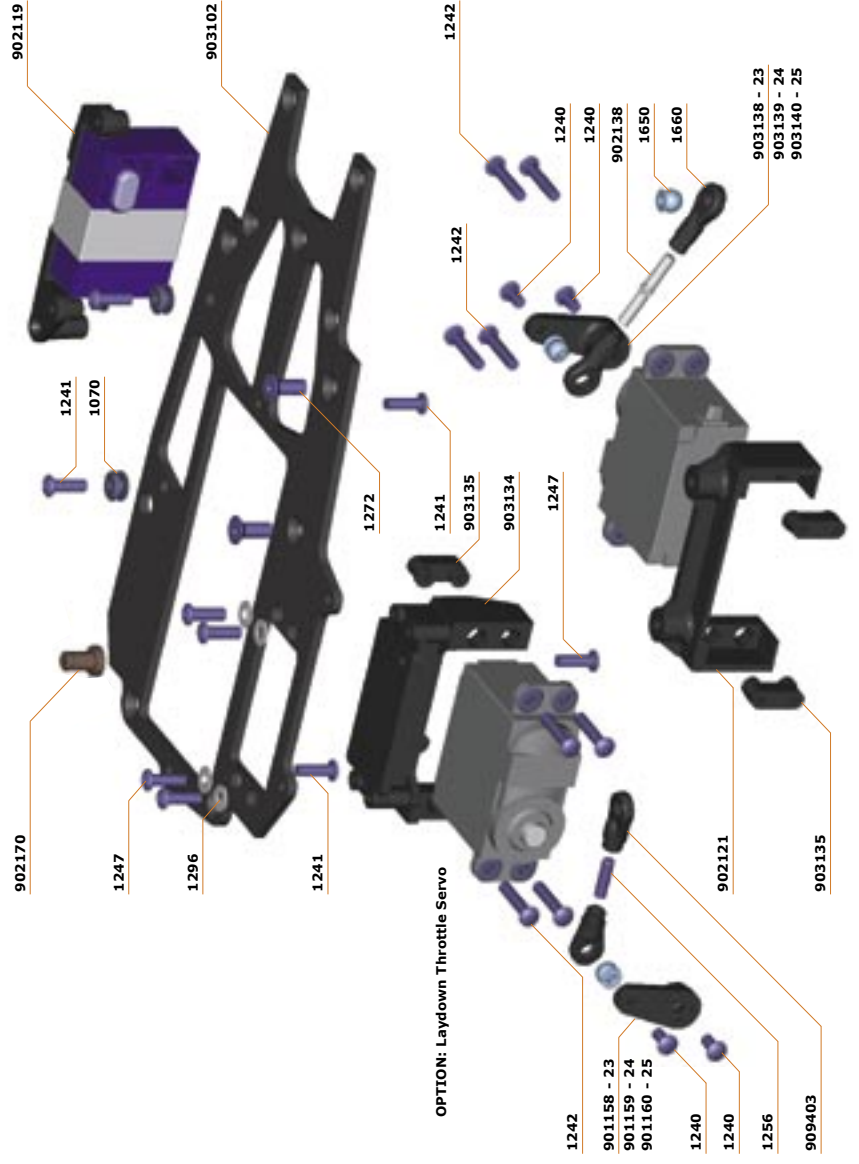
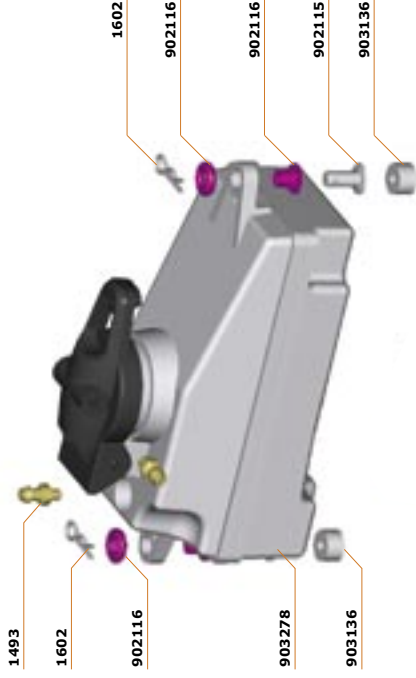
FRONT ASSEMBLY



REAR ASSEMBLY

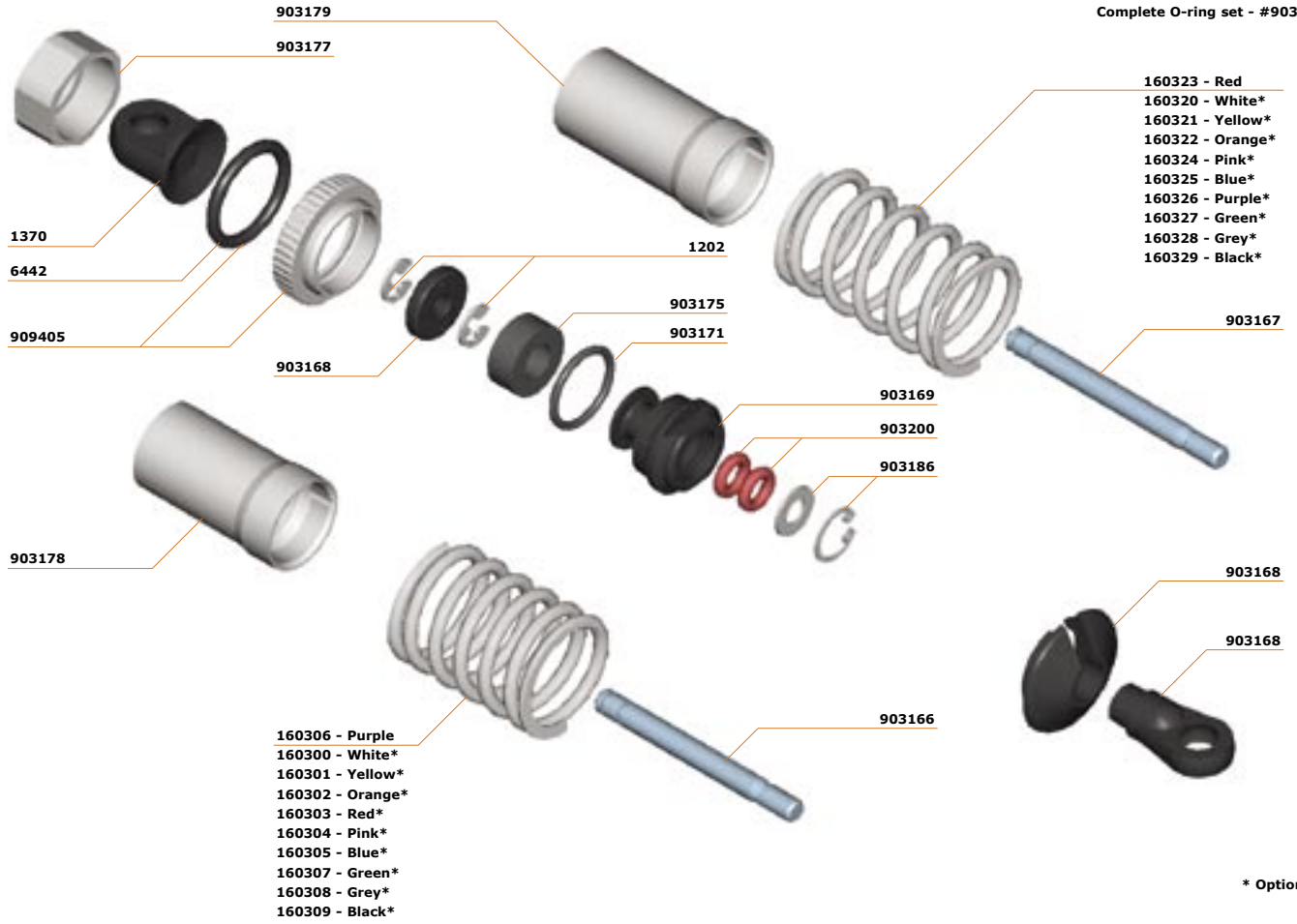


RADIO PLATE ASSEMBLY



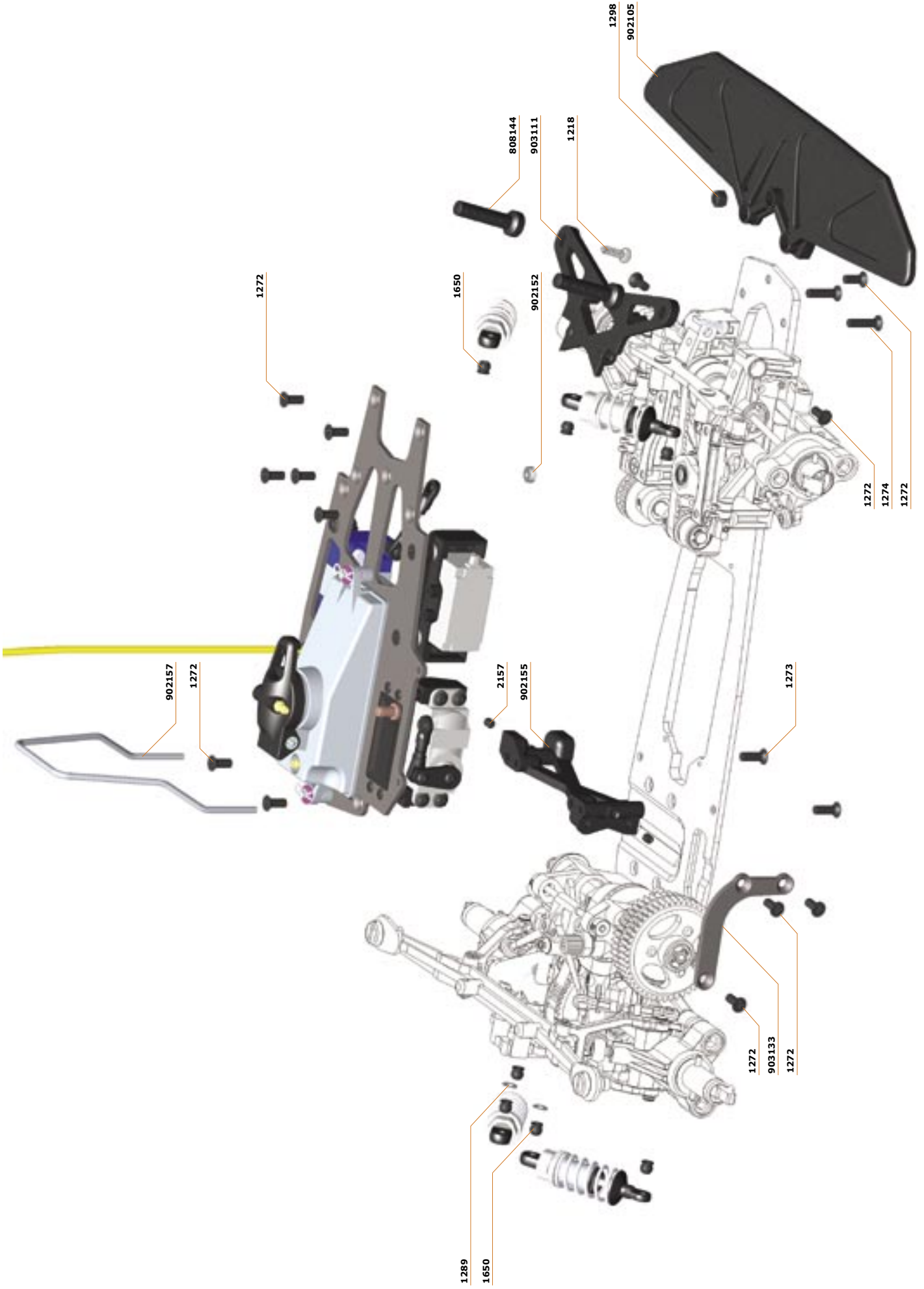
SHOCK ASSEMBLY

Set of Front RCC Shock Absorbers - #903164
 Set of Rear RCC Shock Absorbers - #903165
 Set of Front Springs - #160310
 Set of Rear Springs - #160330
 Complete O-ring set - #903170



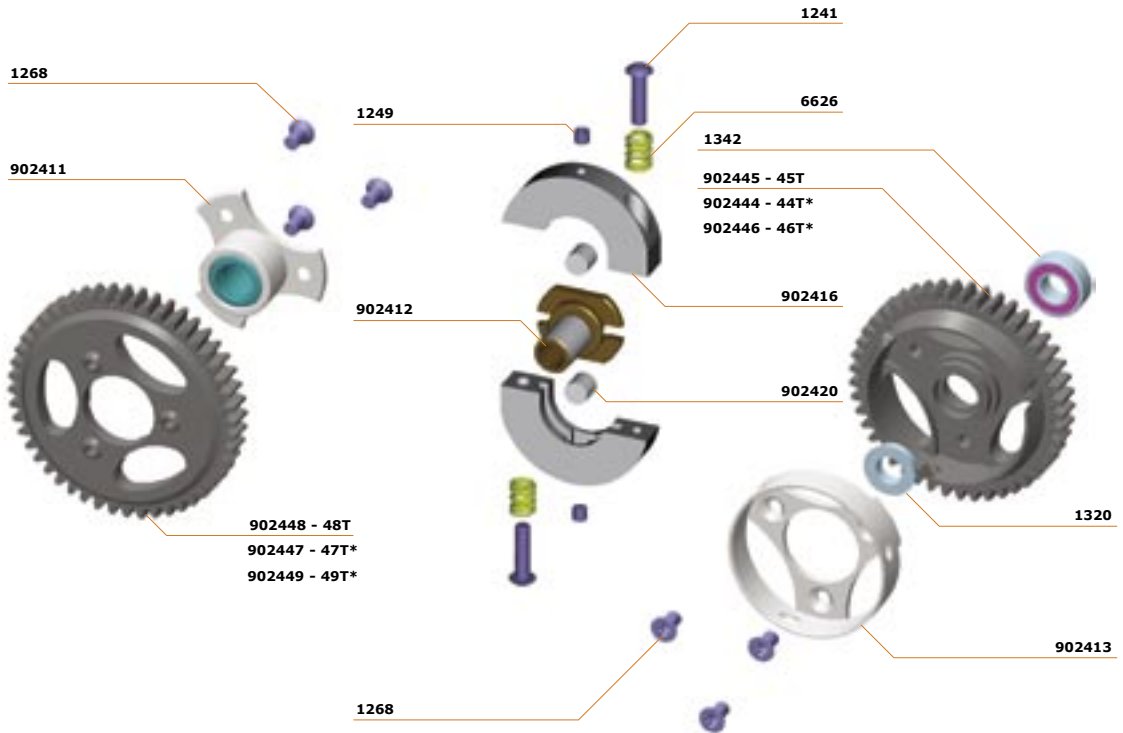
* Optional

RADIO PLATE MOUNTING



GEARBOX ASSEMBLY

2 Speed gearbox LC (no shaft incl.) - #902410
 2 Speed shaft 960 - #903116



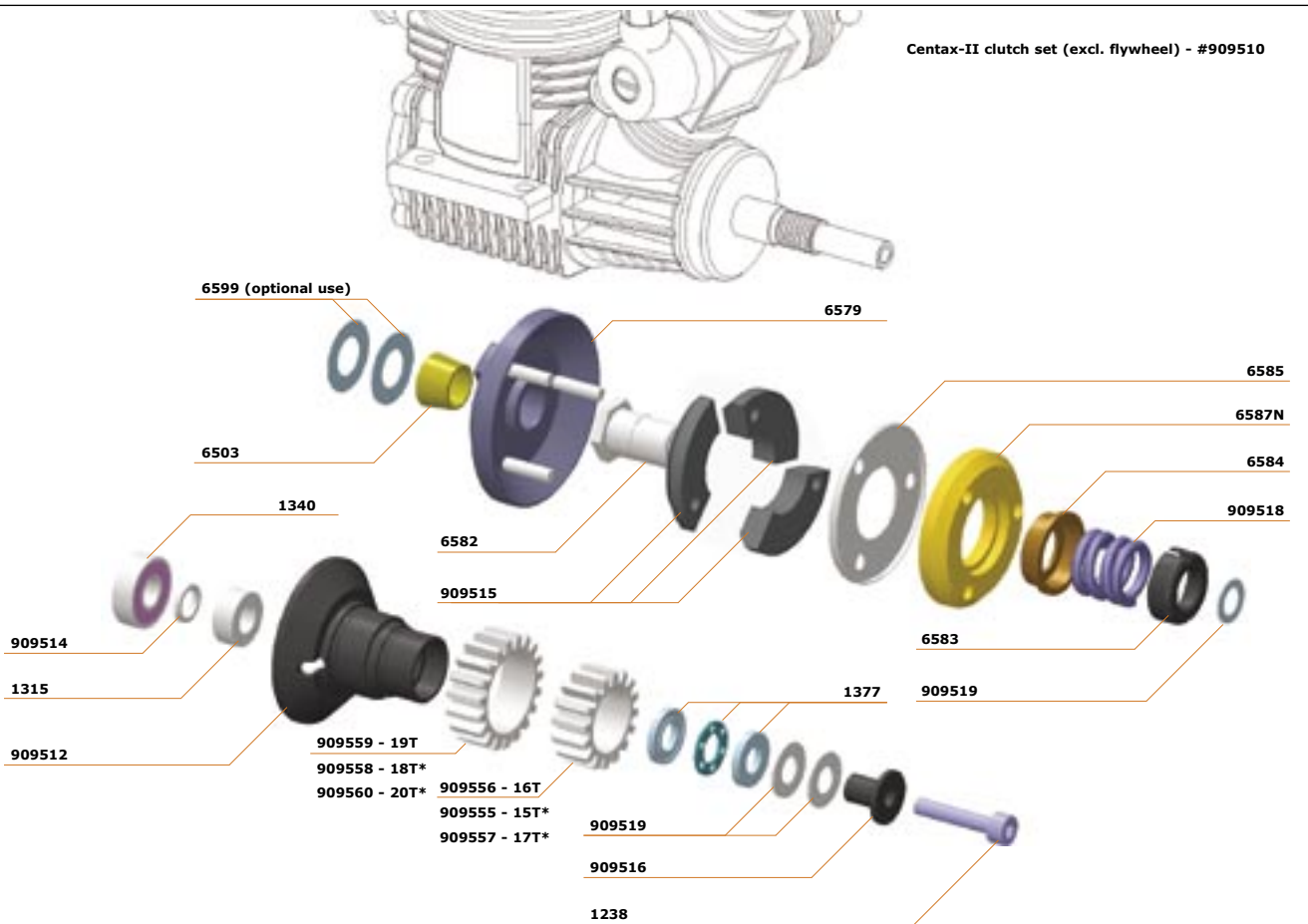
Mounting fasteners

- #1111 - Pin NRA 3x13.8 P13
- #1205 - E-clip 5.0 R5
- #1253 - Grubscrew M3x8 H11

* - Optional

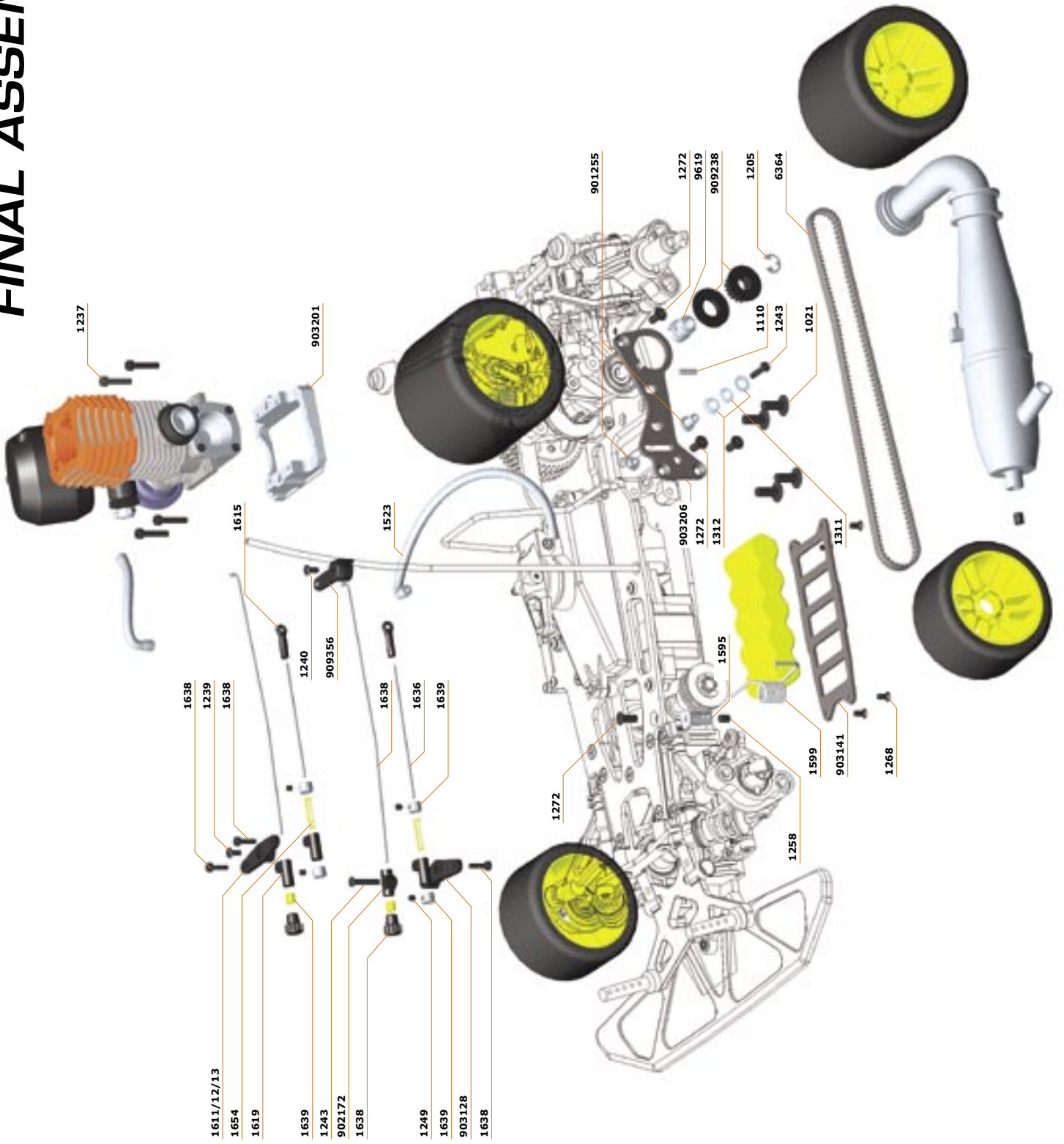
CENTAX ASSEMBLY

Centax-II clutch set (excl. flywheel) - #909510



* - Optional

FINAL ASSEMBLY



PARTS LIST SERPENT 960

ART No. DESCRIPTION

903008 SERPENT 960 08 1/8 4WD KIT

MANUAL, DECALS

903275 Manual S960 08
903276 Ref guide S960 08
903149 Setup book S960
903150 Decal S960 A4 + A5
903151 Decal S960 A5

RADIO INSTALLATION / BATTERY

1070 Grommet rubber soft (4)
1296 Washer nylon M3x7x0.5 (4)
1611 Servo lever 23T, double arm (2)
1612 Servo lever 25T, double arm (2)
1613 Servo lever 24T, double arm (2)
1615 Ball-joints 4mm (4)
1619 Wire-guide nylon
1636 Throttle linkage set
1638 Brake-linkage set
1639 Collar alu 2.1 + setscrew (4)
1650 Balls 6mm/setscrews hex (4)
1654 Spring small (4)
802151 Receiver cover
901158 Servo lever 23T, single arm
901159 Servo lever 24T, single arm
901160 Servo lever 25T, single arm
902119 Receiver bracket 960
902121 Mounting bracket steering servo
902138 Rod 23mm threaded L + R (2)
902170 Shaft, throttle lever
902172 Throttle slide part
903128 Throttle lever
903134 Bracket throttle-brake servo
903135 Mount-supports servo
903138 Servo lever 23T, single arm
903139 Servo lever 24T, single arm
903140 Servo lever 25T, single arm
903141 Battery-support plate S960 Carbon
903157 Receiver bracket 710 / 960
903196 Mount ST servo V2+ transponder mount
903197 Mount steering-servo V2
903231 Ball joints frame 12+4+2

SERVO SAVER AND STEERING

902128 Track-rod set (2)
902133 Servo-saver shaft inner
902134 Servo-saver shaft outer
902135 Servo-saver pre-tension nut
902139 Servo-saver spring hard
903211 Servo-saver set 960 nylon adj.
903230 Ball joints 5.8mm frame

FUEL TANK AND PARTS

1437 Fuel cap with shaped seal (2)
1438 Fuel cap with shaped seal
1493 Pressure nipple
1602 Tank-clips small (10)
902115 Mounting-pin tank + rubber cap (2)
902116 Cap rubber for mounting pin tank (2)
903136 Shim 3.1x8x5 nylon
903278 Fueltank 125cc AFL cap / Shaped seal

SHOCK ABSORBERS

803196 Shock RCC revision set
903164 Shock-set front (2)
903165 Shock-set rear (2)
903166 Piston rod FR (2)
903167 Piston rod RR (2)
903168 Nylon parts frame shocks
903169 Insert shock (2)
903170 O-ring + clip set
903171 O-ring 10x1 (4)
903172 O-ring 3.8x1.5 (4)
903173 O-ring 12x1.6 (4)
903174 E-clip 2.3mm (4)
903175 Foam insert (4)
903176 Nut adj alu + o-ring (4)
903177 Nut shock alu (4)
903178 Body alu shock FR (2)
903179 Body alu shock RR (2)
903200 O-ring 3.3x1.5 RCC shocks (10)

SHOCK SPRINGS

160300 Spring white L23 (2.3/13) (2)
160301 Spring yellow L23 (2.8/16) (2)

160302 Spring orange L23 (3.4/19.5) (2)
160303 Spring red L23 (4.1/23.5) (2)
160304 Spring pink L23 (4.0/28) (2)
160305 Spring blue L23 (5.8/33) (2)
160306 Spring purple L23 (6.8/39) (2)
160307 Spring green L23 (8/45.5) (2)
160308 Spring grey L23 (9/51.5) (2)
160309 Spring black L23 (10/57) (2)
160310 Spring-set short (5x2)
160320 Spring white L27 (2.3/13) (2)
160321 Spring yellow L27 (2.8/16) (2)
160322 Spring orange L27 (3.4/19.5) (2)
160323 Spring red L27 (4.1/23.5) (2)
160324 Spring pink L27 (4.0/28) (2)
160325 Spring blue L27 (5.8/33) (2)
160326 Spring purple L27 (6.8/39) (2)
160327 Spring green L27 (8/45.5) (2)
160328 Spring grey L27 (9/51.5) (2)
160329 Spring black L27 (10/57) (2)
160330 Spring black L27 set (5x2)

CHASSIS / RADIO PLATE

902152 Spacer Radio plate (3)
902155 Radio plate bracket
902157 Roll-bar chrome
903102 Radio plate S960
903133 Side plate R carbon
903205 Side plate L / alu insert / 6x13bb set
903206 Side plate L carbon T2
903207 Sideplate insert alu coated
903274 Chassis plate LCG 08
903277 Washer alu conical M4 (4)

BODYMOUNTS FR and RR

1601 Body clips (10)
808144 Body mount universal
808152 Centering bushing threaded
903111 Body plate FR
903130 Bodymount RR
903260 Arms body-mount long RR (2)
909344 Pivot pins body mount upper (2)
909345 Pivot bushings rear body mount (4)
909366 T-bracket rear body support

FRONT SECTION

1065 O-ring for alu front axle (10)
1089 Shim nylon adaptor FR 6.1x11x1 (4)
6361 Belt short 6mm
803198 Adjustable Nut Nylon (10)
808214 Caster spacer set (2)
808346 Pivot balls steel 8.5mm (2)
902105 Bumper
902271 Springs quick-change short (4)
902272 Wheel-nut alu + O-ring (4)
902280 Wheel-axles front CV set
902281 Driveshaft-set front CV
902282 Insert alu CV (2)
903106 Wishbone FR upper L
903107 Wishbone FR upper R
903110 Shock tower carbon FR
903118 Eccentric nylon (2)
903161 Susp bracket alu FR upper L + R
903233 Steering block WOS (1+2)
903261 Wishbone front lower (2)
903262 Anti-roll bar lever/downstop front
903264 Bearing block front left 08
903265 Bearing block front right 08
903272 Pivot pin 3x82mm (2)
909224 Shim 12x18x0.3mm (2)
909225 Front axle alu. with OWB
909264 Pivot pins front upper (2)
9213 Pulley / flange 24T
9212 Inner driveshaft adaptors (2)
9226 Lever alu quick-change (2)

MIDDLE SECTION

6364 Drive-belt long 6mm
808251 Middle shaft bracket alu
901255 Belt-tensioner shaft and nut
902252 Middle shaft steel
909236 Pulley / flange 16T
909238 Pulley / flange 18T
909242 Pulley / flange 22T
909245 Pulley / flange 25T
909248 Brake-pulley adaptor alu.
909250 Pulley adaptor alu. (2)

REAR SECTION

802328 Pivot pin rear upper (2)
803169 Adjustable rear anti-roll bar soft
803198 Adjustable Nut Nylon (10)
902308 Pivot pin rear lower 3.5mm (2)
902341 Engine mount mono-block
903117 Stiffener RR upper carbon
903119 Susp bracket RR L
903120 Susp bracket RR R
903121 Pivot insert nylon (4+4+4)
903113 Bearing block RR L
903114 Bearing block RR R
903118 Eccentric Nylon (2)
903122 Rear plate
903127 Anti-roll bar rear adjustable
903129 Spacer anti-roll bar RR
903154 Nylon inserts wheel-axles (2)
903156 Driveshaft rear 62mm (2)
903236 Shock tower RR carbon V2
903228 Bearing block RR L hard V2
903237 Anti-roll bar blade soft (2)
903250 Pivot-balls 8.5mm 27.7mm (2)
903256 Upright OS1 (2)
903258 Wishbone rear upper (2)
903259 Wishbone rear lower (2)
903260 Arms body-mount long RR (2)
903263 Track rod with hole 25mm (2)
903273 Ball 6.8mm steel (2)
909224 Shim 12x18x0.3mm (2)
909322 Wheel-axles steel rear (2)
909325 Quick-change levers alu rear (2)
909336 Rear anti-roll bar ball-rod
9619 Pulley adaptor alu 19T

BRAKE SYSTEM

1106 Pin NRA 2.5x19.8 (4)
901355 Brake pads blue (4)
901356 Brake-plates steel (3)
903112 Brake cam alu
903115 Brake support plate carbon
903281 Brake pulley 22T V2
903282 Brake pulley adaptor V2
903283 Retainer brake pulley adaptor V2
909356 Brake-cam / spring-set
9612 Ventilated brake-disk
9611 Steel brake disks (2)

TRANSMISSION

909373 Kevlar drive-belt 8mm
903229 Pulley solid axle 51T V2
903279 Solid axle RR / clip

2-SPEED GEARBOX

6626 Springs / screws 2-speed
902410 2-speed gearbox LC (no shaft incl)
902411 Drive-flange alu with OWB LC
902412 Adaptor 2-speed LC
902413 Clutch bell alu LC
902416 2-speed clutch shoes set LC
902444 2-speed gear 44T (2nd) LC
902445 2-speed gear 45T (2nd) LC
902446 2-speed gear 46T (2nd) LC
902447 2-speed gear 47T (1st) LC
902448 2-speed gear 48T (1st) LC
902449 2-speed gear 49T (1st) LC
903116 Shaft 2-speed LC 960

CLUTCH SYSTEM

1377 Centax II thrust-bearing 5x10
6503 Flywheel cone (3)
6579 Centax flywheel 38mm
6582 Centax clutch-nut
6583 Centax pre-load adjusting nut
6584 Centax spring cup
6585 Centax thrust washer
6587N Centax clutch shoe Yellow
6599 Centax shim-set 7x13 (10)
903212 Centax support-disk alu
903222 Centax II revision-set
903223 Spur gear-set 1/8 (7)
903224 Gear pinion set Centax II
909510 Centax II clutch-set (excl. Flywheel)
909514 Centax II bearing spacer 5x7
909515 Centax II centrifugal shoes (3)
909516 Centax II spacer thrustbearing

909518 Centax II coil spring 1.8
 909519 Centax 5x10 shim-set 0.1 (2) 0.3 (1)
 909512 Centax II clutch-housing universal
 909555 Centax gear-pinion alu. 15T
 909556 Centax gear-pinion alu. 16T
 909557 Centax gear-pinion alu. 17T
 909558 Centax gear-pinion alu. 18T
 909559 Centax gear-pinion alu. 19T
 909560 Centax gear-pinion alu. 20T

ENGINE MOUNTS

1021 Screw flanged allen M5x8 (4)
 1595 Mount alu exhaust wire
 1599 Exhaust mounting wire
 902341 Engine monoblock M21

WHEELS

903152 Rim front 1/8 yellow (2)
 903153 Rim rear 1/8 yellow (2)
 909851 Tire savers 1/8 (10)

OPTION PARTS

1015 Engine mount screws Torx / washers (4)
 1017 Engine mount screws hex-flanged (4)
 1018 Screw-flanged M4x14 hex (4)
 1265 Screw CSH M4x10 aluminum (10)
 1530 Fuel Filter special
 6123A Body post alu short (2)
 9606 Brake disk steel ventilated (2)
 9607 Racing brake-pad set L + R
 902129 Turnbuckle 65mm titanium (2)
 902137 Servo saver spring 2.0 gold
 902139 Servo saver spring 2.2 black
 902156 Radio plate bracket alu
 902250 Middle shaft bracket
 902253 Middle shaft alu coated
 902270 Wheel-axles front QC-fixed set
 902284 Spacer alu steering block (2)
 902370 Wheel-axles rear QC-fixed set
 903108 Steering block L
 903109 Steering block R
 903121 Pivot insert nylon pos 2
 903143 Roll center carbon spacer 1mm
 903158 Lever FR quick-change alu light (2)
 903159 Lever RR quick-change alu light (2)
 903160 Eccentric bearing alu (2)
 903162 Rear plate S960 alu grey
 903163 Rear plate S960 alu orange
 903189 Middle bracket/shaft-set alu 960
 903190 Centering-set carbon rear body mount
 903193 Filler-plate carbon for chassis
 903194 Monobloc M21 LCG Mega-Picco
 903195 Battery-plate closed carbon
 903199 Centax fly-weights SPP (3)
 903201 Monobloc M21 chassis LCG SPP
 903203 Throttle-brake lever alu+bearings
 903208 2-Speed shaft 960 SPP
 903209 Brake-liner teflon (4) SPP
 903219 Centax II clutch set Pro
 903226 Shock rod RCC short Ti-Ni (2)
 903227 Shock rod RCC long Ti-Ni (2)
 903232 Shock spring support alu ISL (4)
 903235 Shim 12x15x0.25 (10)
 903239 Centax-2 clutch shoe red
 903240 Shock spring support nylon ISL (4)
 903241 Battery holder brass
 903251 Disk brake ultra cool
 909216 Anti-roll bar blade male
 909217 Anti-roll bar blade female
 909220 Driveshafts front (2)
 909222 Wheel-axles steel front (2)
 909223 Wheel axle front WOS + alu spacer (2)
 909224 Shim 12x18x0.3mm (2)
 909228 Wheel-axle washers conical (4)
 909244 Pulley / flange 24T
 909251 Pulley-adaptor alu light (2)
 909253 Pulley 16T alu hard-anodised
 909254 Pulley 18T alu hard-anodised
 909255 Pulley 24T alu hard-anodised
 909323 Wheel-axle set rear light / WOS (2)
 909513 Centax II clutch-housing universal light

BALL-BEARINGS

1311 Ball-bearing 5x8
 1312 Ball-bearing 5x8 flanged
 1315 Ball-bearing 5x10
 1320 Ball-bearing 6x10 flanged
 1321 Ball-bearing 6x10x3 (2)
 1340 Ball-bearing 5x13 HS (2)
 1342 Ball-bearing 6x13 HS (2)
 1343 Ball-bearing 6x15 HS (2)
 1346 Ball-bearing 12x18 HS (2)

1347 Ball-bearing 12x21 HS (2)
 1348 Ball-bearing 15x24 HS (2)
 1377 Thrustbearing 5x10
 1380 Ball-bearing 5x13 HS Cera (2)
 1381 Ball-bearing 6x10 fl HS Cera (2)
 1382 Ball-bearing 6x13 HS Cera (2)
 1383 Ball-bearing 6x15 HS Cera (2)
 1384 Ball-bearing 10x15x4 HS Cera (2)
 1386 Ball-bearing 12x18 HS Cera (2)
 1387 Ball-bearing 12x21 HS Cera (2)
 1388 Thrust-bearing 5x10 ceramic

BODIES AND WINGS

1601 Body clips (10)
 1729 Screw-nut M6 black nylon (2)
 1730 Lexan body-set 1/8 Lola EV3 (2+1+1)
 1731 Trim strip shaped 1/8 EV3
 1751 Body McLaren GT1 MS
 1753 Body Porsche GT1 MS
 170200 Body Lola 1/8 Central EFRA 31490
 170201 Body Lola 1/8 Central EFRA 31490 light

TOOLS

1016 Torx wrench
 140000 Powerstart starter box
 1453 Fuel-bottle super-soft 500cc
 1460 Camber gauge
 1461 Tool front anti-roll bar
 1462 Tool pressure nipple / Centax nut
 1466 Tool ride-height-droop alu
 1467 Set-up blocks triangle alu (2)
 903202 Tool RCC shocks
 903210 Tool nut-driver 12x100mm SPP
 909590 Gear pinion wrench
 909593 Clutch housing gripper
 909597 Centax gap-tool alu

ACCESSORIES

1494 Silicone tubing 50cm white
 1521 Silicone tubing 50cm purple
 1522 Silicone tubing 50cm smoke
 1523 Silicone tubing 50cm orange
 1605 Antenna rods green (2)
 1606 Antenna rods black (2)
 1607 Antenna rods blue (2)
 1608 Antenna rods orange (2)
 1609 Antenna rods purple (2)
 1690 Cleaning putty 200g

OILS

1670 Silicone shock-oil 20W 100cst
 1674 Silicone shock-oil 25W 180cst
 1671 Silicone shock-oil 30W 350cst
 1675 Silicone shock-oil 35W 600cst
 1672 Silicone shock-oil 40W 1000cst
 1676 Silicone shock-oil 45W 1400cst
 1673 Silicone shock-oil 50W 2000cst
 1680 One-way lube 25ml
 1682 Bearing oil 25ml
 1683 Premium lube 25ml
 1684 Oil Set - 3 types

MERCHANDISING

1872 Rucksack Serpent (35x45cm) black
 1873 Rucksack Serpent (48x61cm) black
 1883 Banner Serpent S-logo 2x1m nylon
 190100 T-shirt Serpent black (S)
 190101 T-shirt Serpent black (M)
 190102 T-shirt Serpent black (L)
 190103 T-shirt Serpent black (XL)
 190104 T-shirt Serpent black (XXL)
 190110 Sweater Serpent black (S)
 190111 Sweater Serpent black (M)
 190112 Sweater Serpent black (L)
 190113 Sweater Serpent black (XL)
 190114 Sweater Serpent black (XXL)
 1998 Serpent Cap black/orange

FASTENING MATERIALS

1101 Pin NRA 2.5x11.8 (4)
 1102 Pin NRA 2.5x11.8 (4)
 1103 Pin NRA 2.5x13.8 (4)
 1104 Pin NRA 2.5x15.8 (4)
 1105 Pin NRA 2.5x17.8 (4)
 1106 Pin NRA 2.5x19.8 (4)
 1107 Pin NRA 2.5x21.8 (4)
 1108 Pin NRA 2x13.8 (4)
 1109 Pin NRA 2x9.8 (4)
 1110 Pin NRA 3x11.8 (4)
 1111 Pin NRA 3x13.8 (4)
 1112 Pin NRA 3x19.8 (4)
 1113 Pin NRA 3x9.8 (4)

1114 Pin NRA 3x15.8 (4)
 1115 Pin NRA 5x5 (4)
 1201 E-clip 1.9 (10)
 1202 E-clip 2.3 (10)
 1203 E-clip 3.2 (10)
 1204 E-clip 4.0 (10)
 1205 E-clip 5.0 (10)
 1207 E-clip 7.0 (10)
 1208 C-clip 10x1 (10)
 1209 G-clip 14x1 (10)
 1212 Screw rh ph 2.9x9.5 (10)
 1213 Screw rh ph 2.9x13 (10)
 1214 Screw rh ph 2.9x16 (10)
 1215 Screw rh ph 2.9x19 (10)
 1216 Screw rh ph 2.9x25 (10)
 1217 Screw rh ph 3.5x9.5 (10)
 1218 Screw rh ph 3.5x13 (10)
 1219 Screw rh ph 3.5x16 (10)
 1220 Screw rh ph 3.5x19 (10)
 1225 Screw rh M2x6 (10)
 1226 Screw rh M2x6 (10)
 1227 Screw rh ph M3x8 (10)
 1228 Screw rh ph M3x12 (10)
 1232 Screw rh Allen M3x18 (10)
 1235 Screw ch Allen M3x6 (10)
 1236 Screw ch Allen M3x10 (10)
 1237 Screw ch Allen M3x12 (10)
 1238 Screw ch Allen M3x16 (10)
 1239 Screw rh Allen M3x6 (10)
 1240 Screw rh Allen M3x8 (10)
 1247 Screw rh Allen M3x10 (10)
 1241 Screw rh Allen M3x12 (10)
 1243 Screw rh Allen M3x16 (10)
 1234 Screw rh Allen M3x20 (10)
 1244 Screw rh Allen M4x6 (10)
 1245 Screw rh Allen M4x8 (10)
 1246 Screw rh Allen M4x16 (10)
 1249 Grubscrew M3x3 (10)
 1250 Grubscrew M3x4 (10)
 1251 Grubscrew M3x6 (10)
 1252 Grubscrew M4x10 (10)
 1253 Grubscrew M3x8 (10)
 1255 Grubscrew M3x10 (10)
 1256 Grubscrew M3x12 (10)
 1257 Grubscrew M4x4 (10)
 1258 Grubscrew M4x6 (10)
 1259 Grubscrew M5x5 (10)
 1260 Grubscrew M5x6 (10)
 1262 Grubscrew M3x20 (10)
 1261 Grubscrew M4x10 (10)
 1263 Grubscrew M5x4 (10)
 1264 Grubscrew M5x6 (10)
 1268 Screw csh ph M3x6 (10)
 1229 Screw csh ph M3x10 (10)
 1269 Screw csh ph M3x16 (10)
 1270 Screw csh ph M3x8 (10)
 1271 Screw csh ph M4x8 (10)
 1272 Screw csh ph M4x10 (10)
 1273 Screw csh ph M4x12 (10)
 1274 Screw csh ph M4x16 (10)
 1275 Screw csh ph M5x12 (10)
 1278 Screw csh Allen M4x20 (10)
 1279 Screw csh Allen M4x25 (10)
 1280 Screw csh ph 2.2x6.5 (10)
 1281 Screw csh ph 2.9x9.5 (10)
 1282 Screw csh ph 3.5x9.5 (10)
 1283 Screw csh ph 3.5x13 (10)
 1284 Screw csh ph 3.5x16 (10)
 1285 Screw csh ph 4.2x13 (10)
 1290 Washer 3.2x7 (10)
 1291 Washer 2.5x6 (10)
 1292 Spring washer 6.2x14x0.9
 1293 Spring washer 7.2x14x0.8
 1295 Lock washer 3.2x8 (10)
 1297 Nut nylock M3 (10)
 1298 Nut nylock M4 (10)
 1299 Screw csh Allen M3x20 (10)
 1300 Screw csh Allen M2.5x12 (10)
 1646 Steel balls 6mm M3 (4)
 1647 Steel balls 6mm (4)
 1650 Balls 6mm/setscrews hex (4)

This list is subject to changes without prior notice.

For up-to-date information on Serpent, go to our Internet site:

www.serpent.com



SERPENT 960

SERPENT

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