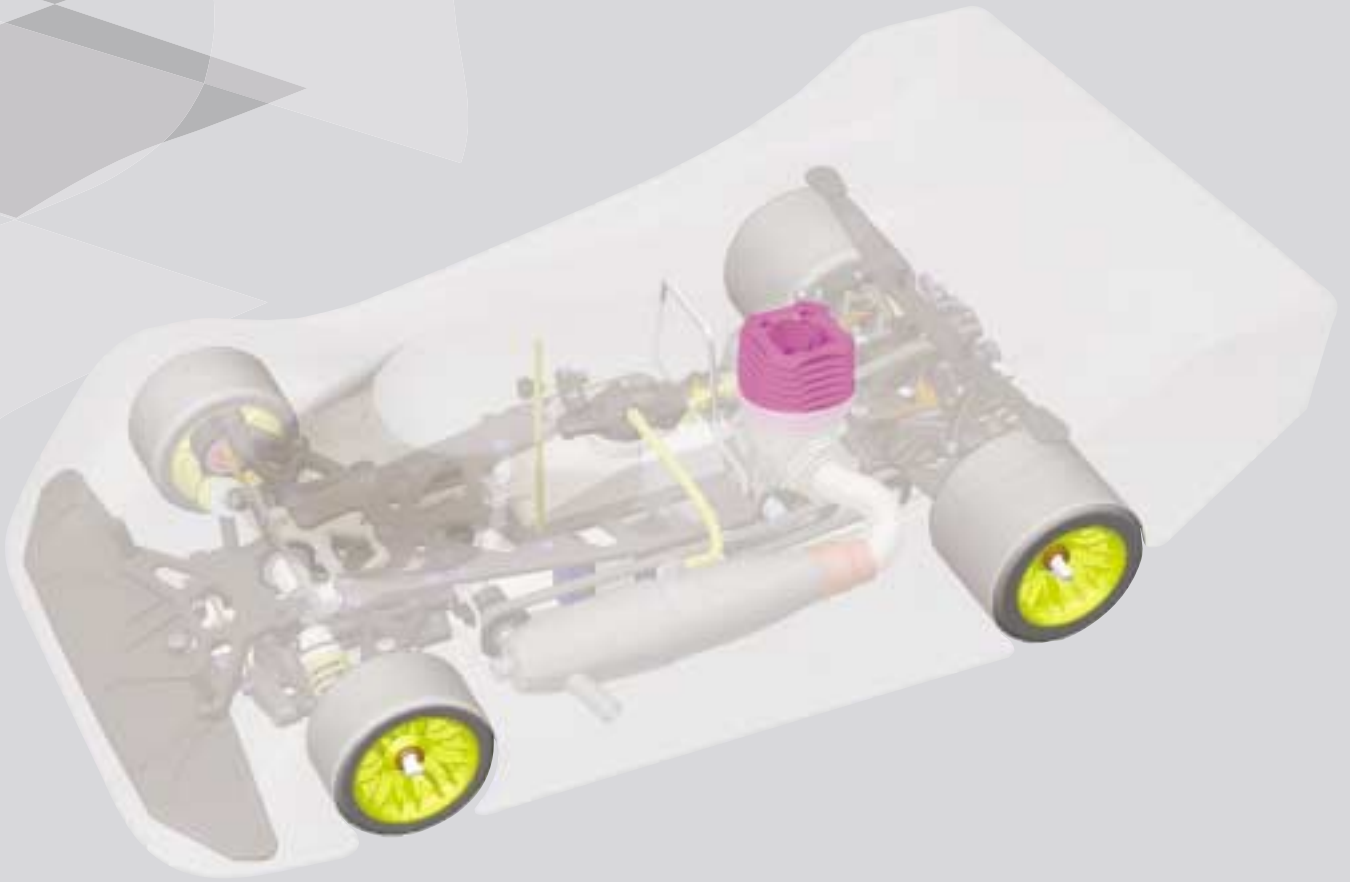


SERPENT 950

1:8 SCALE 4WD GAS ON-ROAD COMPETITION



Reference Guide

SERPENT 950

Introduction

Parts list and Exploded views

The parts list and the exploded views for the Serpent 950 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 booklet you will find with the part number the name of the part. Besides all the Serpent 950 parts as used in this car kit, you will also find in the part list all the optional parts for the Serpent 950, as well as a listing of general items like fasteners and promotional items.

Serpent will regularly update the Serpent 950 parts list and will make it available on the Serpent 950 product page on myTSN, check under 'Downloads'. This product page can be accessed directly at the following address:

www.myTSN.com/Serpent950

Make sure to check out the Serpent 950 product page on myTSN frequently. All information about your car can be found here: publications, news items, set-ups, FAQ's, images, downloads, video's and interesting forums in several languages. MyTSN provides you with an enormous amount of interesting and often valuable information about the Serpent 950, information provided by Serpent, its factory and team drivers, and experienced users from around the world. Often this information is even available in several languages! If you're not a member of myTSN.com yet, sign up today and experience why Serpent excels not only on the track, but also on the Internet.

Contents

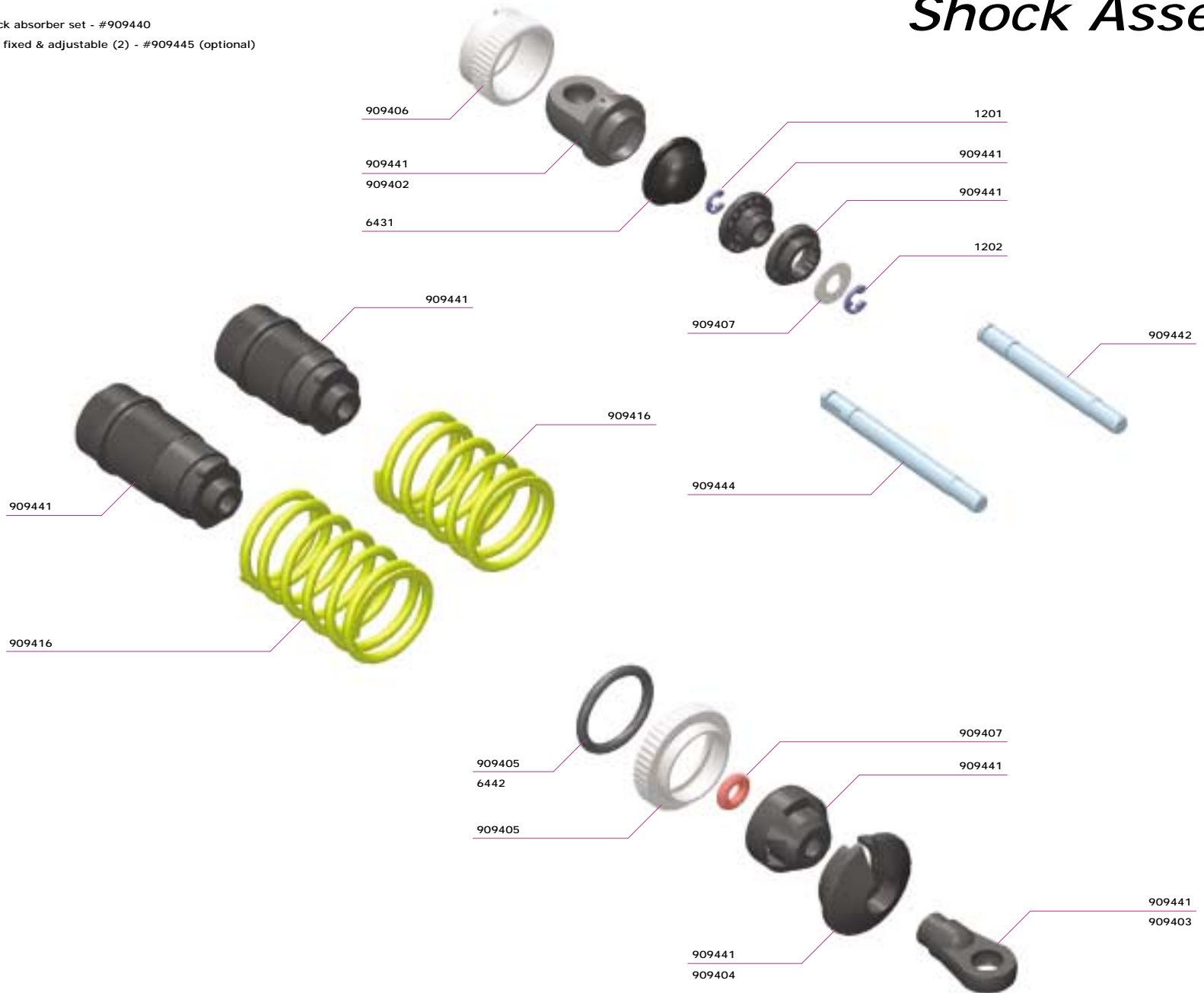
	<i>Description</i>	<i>Page</i>
1.	Shock Assembly	3
2.	Front Assembly	4
3.	Rear Assembly	5
4.	Radio Plate Assembly	6
5.	Radio Plate Mounting	7
6.	Gearbox Assembly	8
7.	Centax Assembly	8
8.	Final Assembly	9
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PERFORMANCE THROUGH EVOLUTION

Shock Assembly

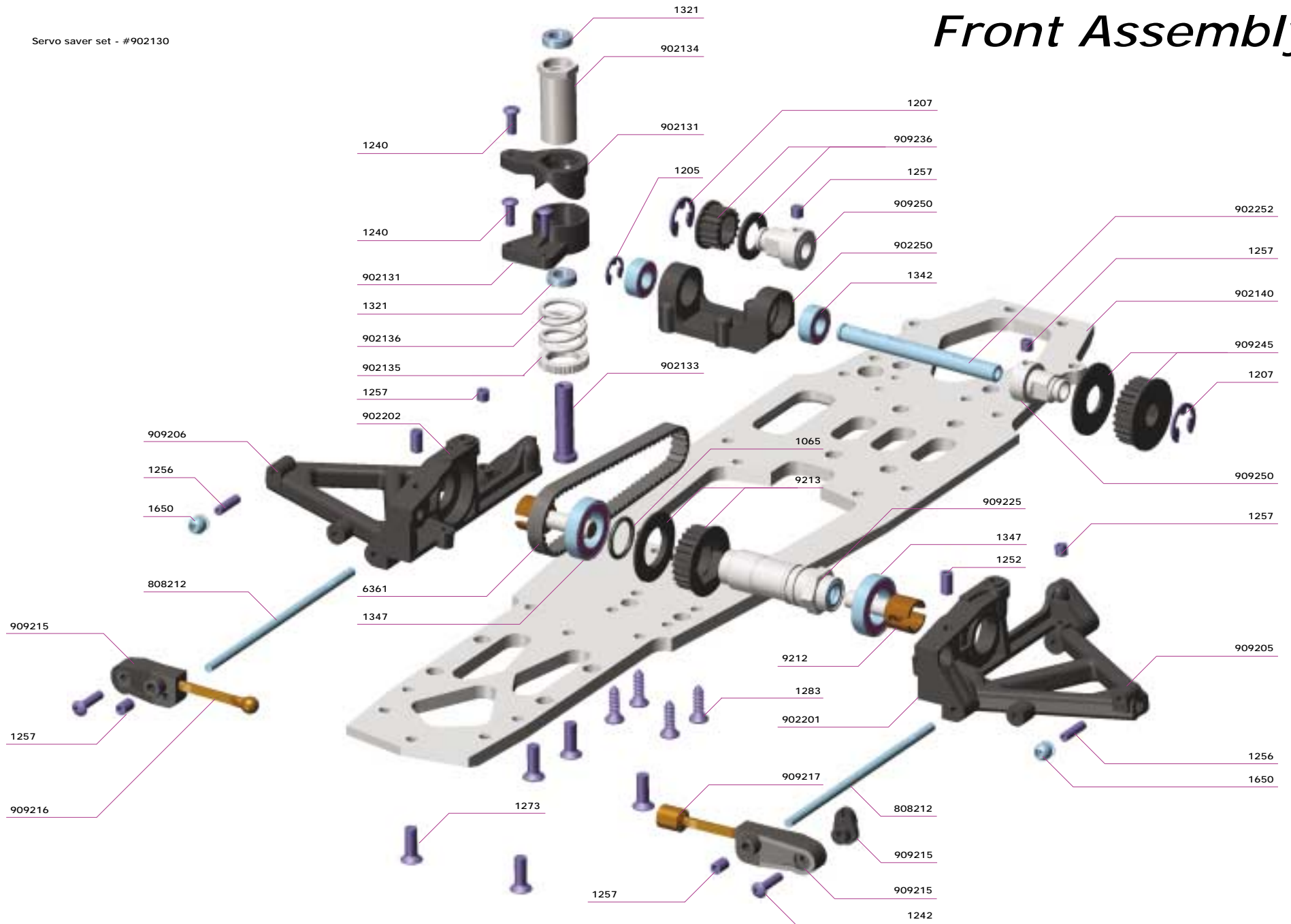
Complete Shock absorber set - #909440

Piston set key fixed & adjustable (2) - #909445 (optional)



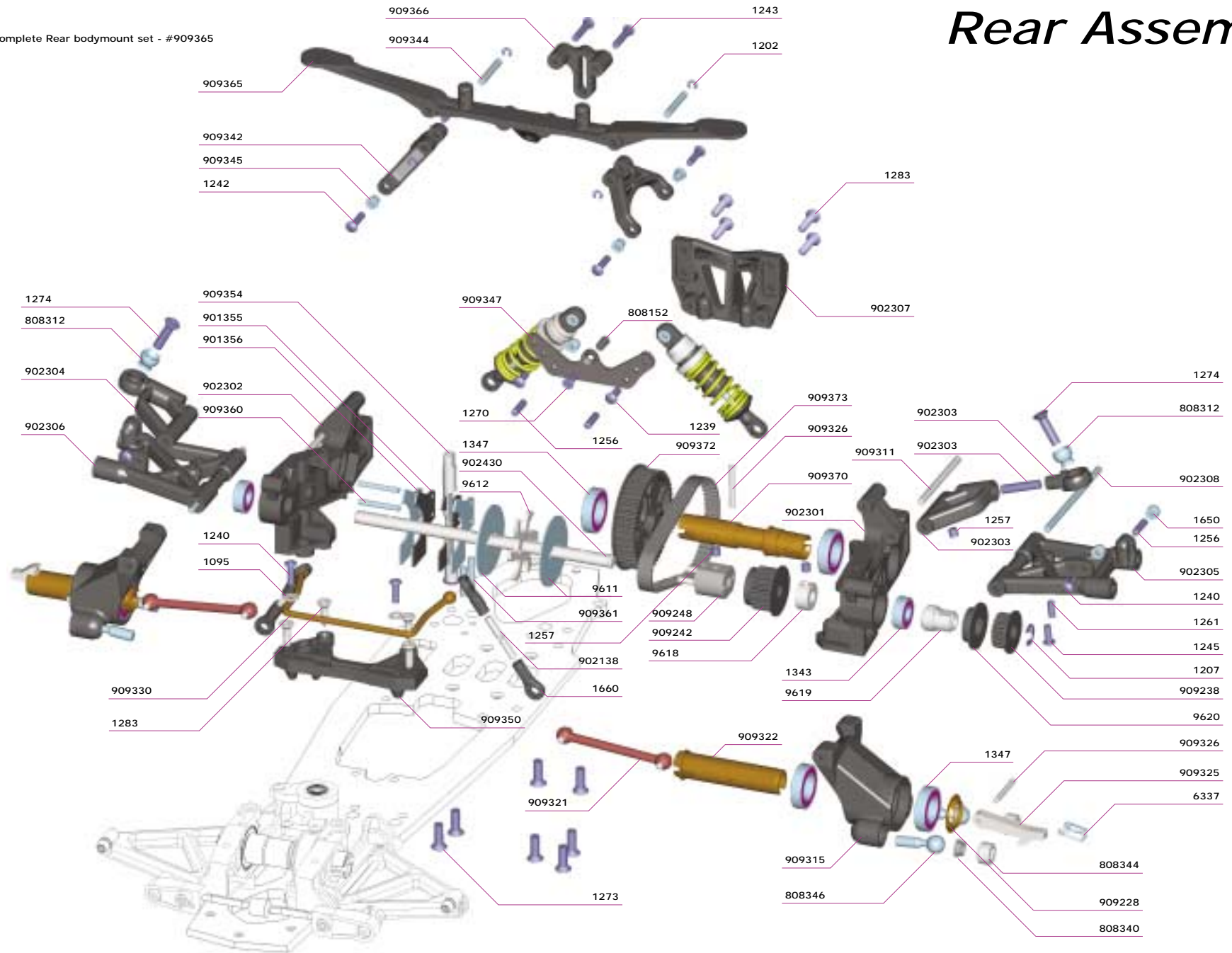
Servo saver set - #902130

Front Assembly

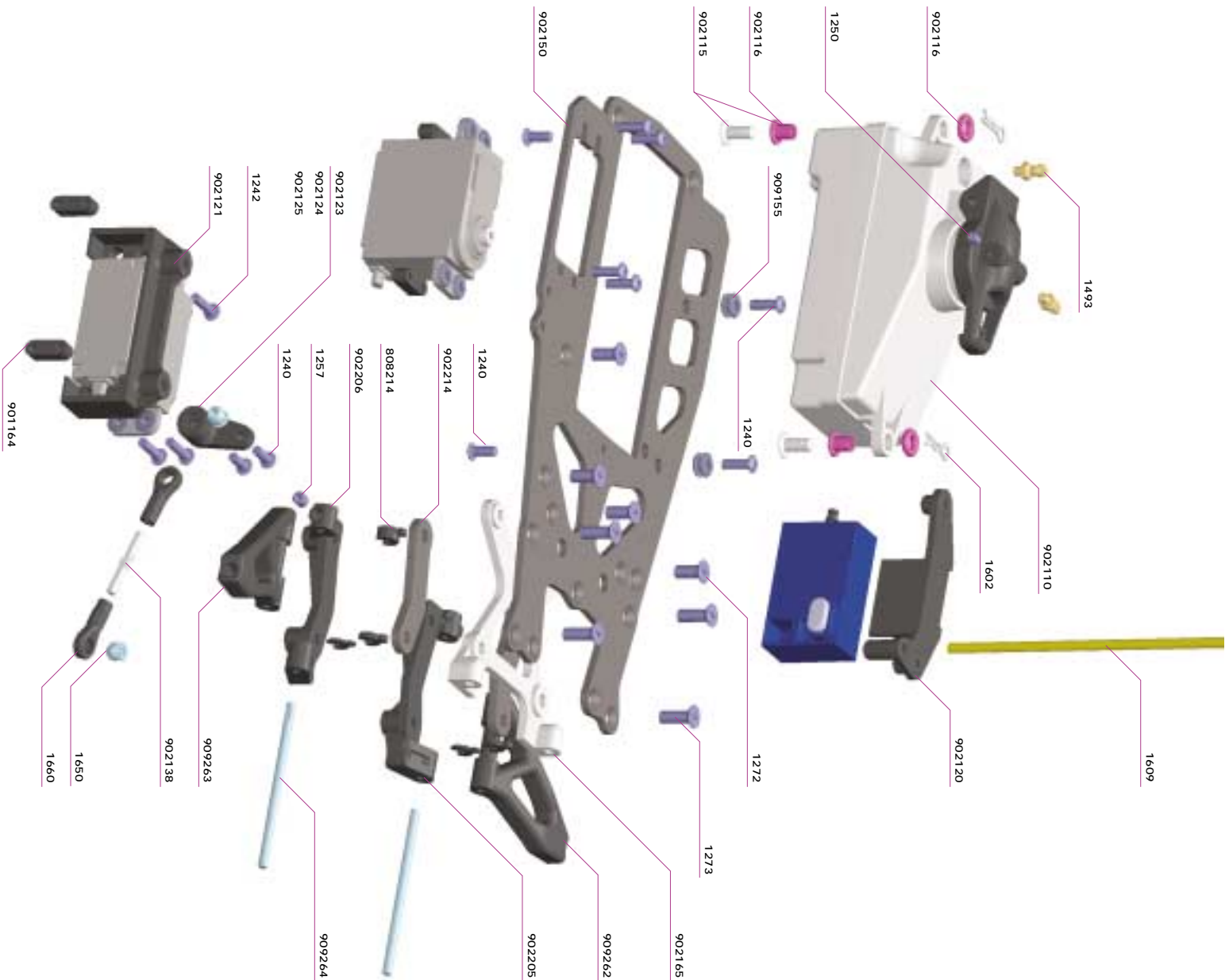


Rear Assembly

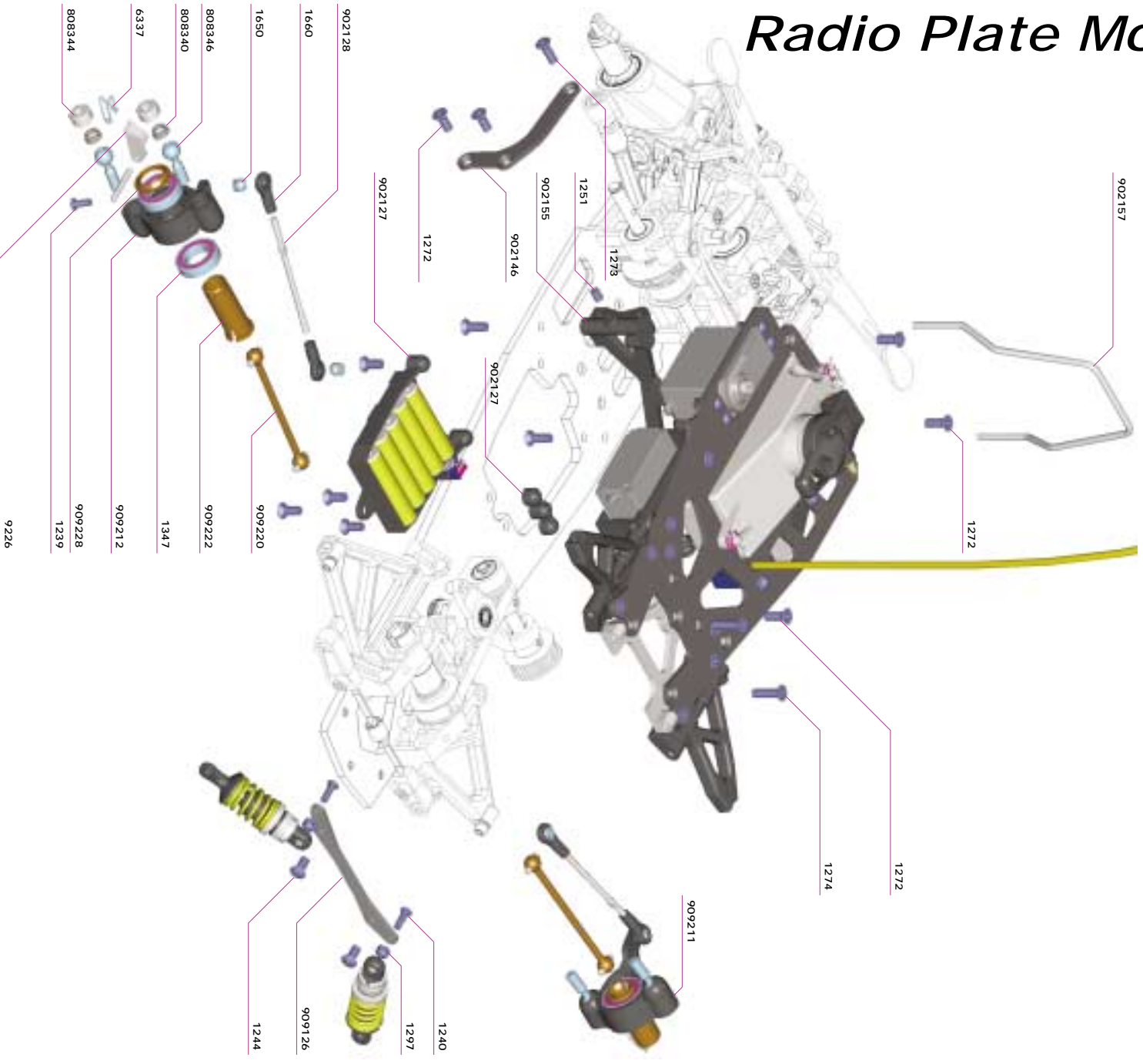
Complete Rear bodymount set - #909365



Radio Plate Assembly

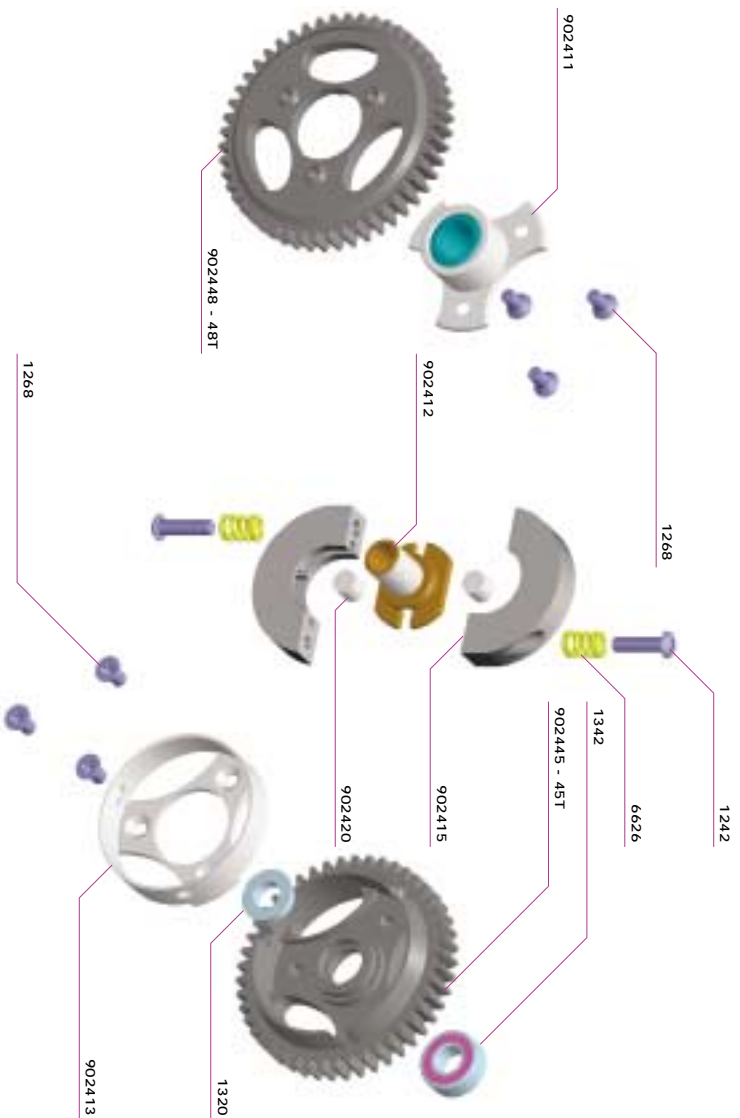


Radio Plate Mounting



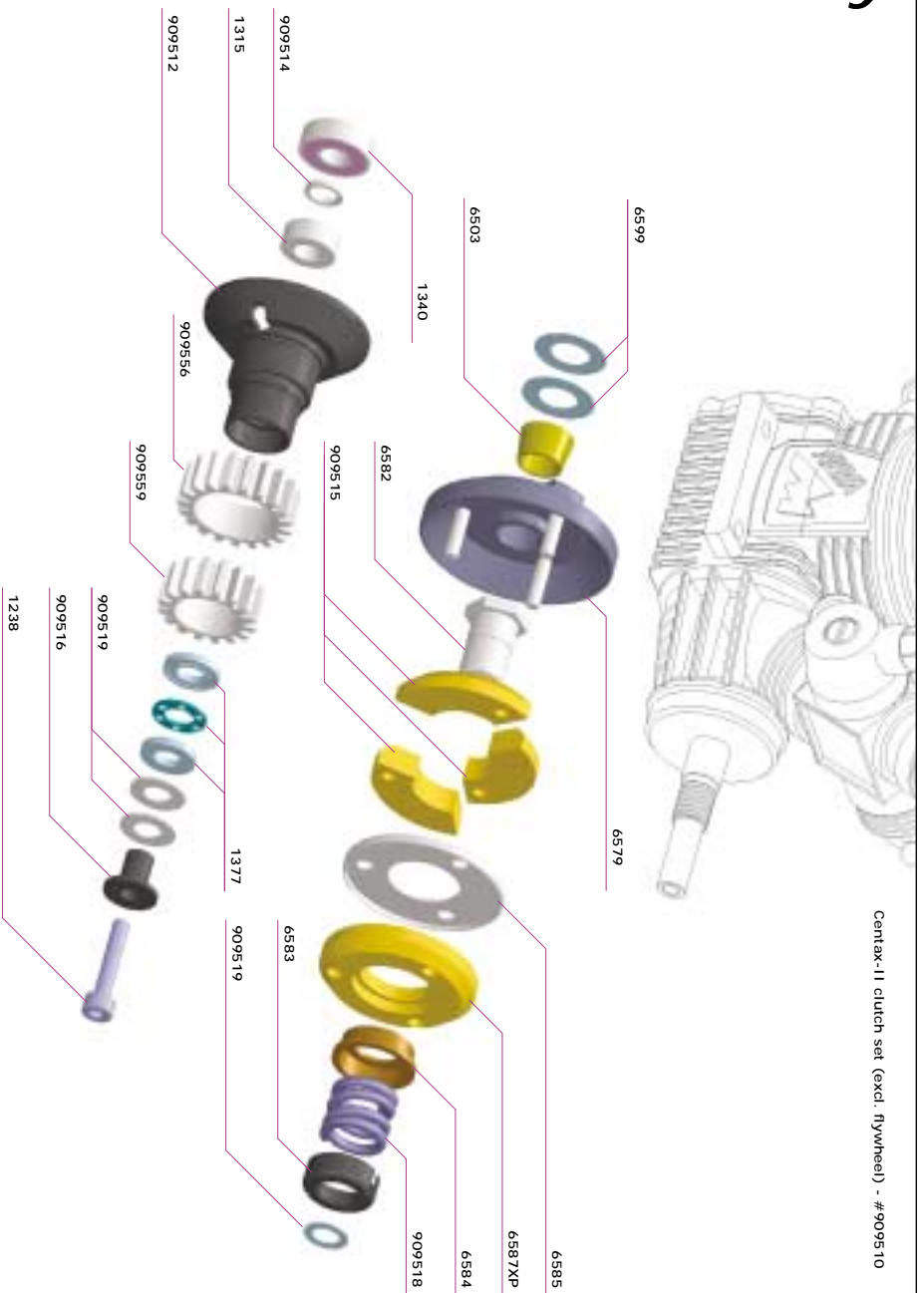
Gearbox Assembly

2 Speed gearbox LC (no shaft Incl.) - #902410
 2 Speed shaft 950 - #902430



Centax Assembly

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



Parts List - Serpent 950

To ensure that you have the most up to date parts list you can download the latest version from the internet by simply typing in the following URL and selecting the file from the 'downloads' section.

[www.myTSN.com/Serpent 950](http://www.myTSN.com/Serpent_950)

ART No. DESCRIPTION

902000 Serpent 950 1/8 4WD

Manuals & Decals

902190 Instructions & set-up 950
902191 Reference-guide 950
902192 Decal-sheet black/white

Radio Installation

902120 Mounting bracket receiver
902127 Mounting bracket battery pack
902121 Mounting bracket steering servo
902123 Steering-servo lever 23T
902124 Steering-servo lever 24T
902125 Steering-servo lever 25T
1611 Servo lever 23T (2)
1612 Servo lever 25T (2)
1613 Servo lever 24T (2)
1636 Throttle linkage set
1637 Brake-linkage set
1619 Wire-guider nylon
1604 Antenna rods pink (2)
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)

Servo and steering system

902128 Track-rod set (2)
902130 Servo-saver set 950
902131 Servo-saver nylon parts
902133 Servo-saver shaft inner
902134 Servo-saver shaft outer
902135 Servo-saver pre-tension nut
902136 Servo-saver spring
902138 Rod threaded L+R (2)

Fuel tank and parts

902110 Fueltank 125ccm with AFL-cap
902115 Mounting-pin tank + rubber cap (2)
902116 Cap rubber for mounting pin tank (2)
1602 Tank-clips small (10)
1431 Rubber tank seals (4)
1493 Pressure nipple
1494 Silicone tubing 50cm white
1495 Silicone tubing 50cm yellow
1496 Silicone tubing 50cm orange
1497 Silicone tubing 50cm green

Ball Bearings

1311 Ball bearing 5x8
1312 Ball bearing 5x8 flanged
1320 Ball bearing 6x10 flanged
1324 Ball bearing 6x15
1315 Ball bearing 5x10
1377 Thrustbearing 5X10
1340 Ball-bearing 5x13 HS Purple (2)
1342 Ball-bearing 6x13 HS Purple (2)
1343 Ball-bearing 6x15 HS Purple (2)
1344 Ball-bearing 10x15 HS Purple (2)
1345 Ball-bearing 10x19 HS Purple (2)
1346 Ball-bearing 12x18 HS Purple (2)
1347 Ball-bearing 12x21 HS Purple (2)

Shock Absorbers

909440 Shock-set 4-STEP KEY FR+RR (2)
909441 Shock-parts nylon 4-step (2)
909405 Shock-adj nut alu + o-rings (4)
909406 Shock-cap-nut alu. (2)

909442 Pistons rod FR key hardened (2)
909444 Pistons rod RR key hardened (2)
6431 Membranes (4)
909407 O-ring set + washers
909404 Spring support washers (4)
909414 Spring-set D=1.5 L=27-22.7 orange (4)
909415 Spring-set D=1.5 L=27-22.7 white (4)
909416 Spring-set D=1.6 L=27-22.7 yellow (4)
909417 Spring-set D=1.7 L=27-22.7 red (4)
909418 Spring-set D=1.8 L=27-22.7 blue (4)

Serpent H-Q Shockabsorber oil

1670 Silicone shock-oil 20W
1674 Silicone shock-oil 25W
1671 Silicone shock-oil 30W
1675 Silicone shock-oil 35W
1672 Silicone shock-oil 40W
1676 Silicone shock-oil 45W
1673 Silicone shock-oil 50W

Chassis & Radio plate

902140 Chassisplate 5mm 7075 alu
902150 Radioplate carbon 2.5mm
902145 Chassis stiffener carbon L
902146 Chassis stiffener carbon R
902155 Radioplate bracket
902157 Roll-bar chrome

Body mounts

808144 Bodymount universal
902106 Bodymount plate front
6123 Body-mounts short (2)
6124 Body-mounts long (2)
909365 Rear body-support set
909366 T-bracket rear body support
808152 Centering bushing threaded
909342 Nylon arms short (2)
909344 Pivot pins bodymount upper (2)
909345 Pivot bushings rear bodymount (4)
1601 Body clips (10)

Front Section

902105 Bumper
902163 X-bracket alu. fr-suspension std.
902201 Bearing block front left
902202 Bearing block front right
902205 Suspension bracket front left
902206 Suspension bracket front right
902212 Spacer roll center 3mm (2)
909262 Wishbones front upper left
909263 Wishbones front upper right
909205 Wishbones front lower left
909206 Wishbones front lower right
909211 Steeringblock left WOS
909212 Steeringblock right WOS
909264 Pivot pins front upper (2)
808212 Pivot pins front lower (2)
808214 Caster spacers (2)
808340 Nylon cup 8.5mm
808344 Adj.nut alu M10 (4)
808346 Pivot balls steel 8.5mm (2)
909215 Anti-roll bar levers + exc.
909216 Anti-roll bar blade male
909217 Anti-roll bar blade female
9213 Pully / flange 24T
9212 Inner driveshaft adaptors (2)
909220 Driveshafts front (2)
909222 Wheel-axles steel front (2)
909228 Wheel-shim conical (4)
909225 Front axle alu. with one ways
1065 O-ring for alu front axle (10)
9226 Lever alu quick-change (2)
6337 Spring quick change system
6361 Belt short 6mm

Middle Section

902250 Middle shaft bracket
902252 Middle shaft steel

909250 Pully adaptor alu. (2)
909236 Pully / flange 16T
909238 Pully / flange 18T
909242 Pully / flange 22T
909244 Pully / flange 24T
909245 Pully / flange 25T
6364 Drive-belt long 6mm
901255 Belt-tensioner shaft and nut
909248 Brake-pully adaptor alu.

Rear Section

902307 Rear plate
902301 Bearingblock rear left
902302 Bearingblock rear right
902303 Wishbone rear upper left adj
902304 Wishbone rear upper right adj
902305 Wishbone rear lower left
902306 Wishbone rear lower right
909311 Pivot pin rear upper (2)
902308 Pivot pin rear lower 3.5mm (2)
909315 Up-right (1)
808312 Pivot ball 9mm with screws (2)
909321 Driveshaft rear short (2)
909322 Wheel-axles steel rear (2)
909325 Quick-change levers alu rear (2)
909326 Steel pins wheel-axles 2.5x21.8 (4)
909330 Rear anti-roll bar set 3mm
902138 Rod threaded L+R (2)
1095 Shims nylon rear anti-roll bar (2)
909347 Shocktower rear carbon
909228 Wheel-axle washers conical (4)

Brake-System

909350 Brake bracket
9612 Ventilated brake-disk
901356 Brake-plates steel (3)
9611 Steel brake disks (2)
901355 Brake pads black (4)
909354 Disk brake cam alu hard anodised
909356 Brake-cam / spring-set
909360 Support pins brake 2.5x20 (2)
909361 Chassis/brake positioning pins 3x16 (2)
9618 Alu.collar brake pulley

Transmission

909370 Solid axle with 50T pully
909372 Pully 50T
909373 Kevlar drive-belt 8mm

2-Speed Gearbox

902410 2-speed gearbox LC (no shaft incl)
902430 2-speed axle 4WD 950
902415 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
6626 Springs / screws 2-speed
902411 Drive-flange alu with owb LC
902413 Clutch bell alu LC
902412 Adaptor 2-speed LC
902420 Needle steel 5X5 (2)

Clutch System

909510 Centax II clutch-set (excl. Flywheel)
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
6504 Conus flywheel (3)
6582 Centax clutch-nut
6585 Centax thrust washer
6584 Centax spring cup
6583 Centax pre-load adjusting nut

909514 Centax II bearing spacer 5x7
 909516 Centax II spacer thrustbearing
 6579 Centax flywheel 38mm
 909518 Centax II coil spring 1.8
 909515 Centax II centrifugal shoes (3)
 6587XP Centax clutch shoe XP
 6599 Centax shim-set 7x13 (10)
 1093 Centax 5x6.8 shim-set 0.1 (2) 0.3 (1)
 1377 Centax II thrust-bearing 5x10

Engine Mounts

902340 Engine mounts M21
 6571 Engine mounting screws/washers
 1599 Exhaust mounting wire

Wheels

909812 Quick-change wheels front yellow (2)
 909842 Quick-change wheels rear yellow (2)
 909851 Tire savers 1/8 (10)

Optionals

1015 Engine mount screws Torx / washers (4)
 1017 Engine mount screws hex-flanged (4)
 1360 Ballbearing 6x13 PHQ (2)
 1362 Ballbearing 12x21 PHQ (2)
 6123A Body post alu short (2)
 9605 Brake disc steel ultra cool
 808251 Middle shaft bracket alu purple
 901231 Rocker front left
 901232 Rocker front right
 901235 Tie-rod 54mm (2)
 901240 Rockers front lineair complete set
 901241 Rockers rear lineair complete set
 902207 Bracket front upper L +R alu
 902156 Radioplate bracket alu
 902160 Push-rod set front suspension
 902161 Rocker shafts PRS (2)
 902162 Bushing rockers PRS (2)
 902207 Suspension brackets alu FR UP L+R
 902210 Spacer roll center 0.8mm (2)
 902211 Spacer roll center 1.5mm (2)
 909128 Shocktower carbon FR MSP
 909218 Anti-rollbar levers alu front (2)
 909223 Wheelaxle front WOS + alu spacer (2)
 909226 Front axle alu + Pro bearings
 909323 Wheel-axle set rear light / WO (2)
 909328 Wheeladaptors set alu fixed F+R
 909329 Wheelflange alu f+r (2+2)
 909335 Rear anti-roll bar set adjustable
 909336 Rear anti-roll bar ball-rod
 909395 Pulley solid axle 51T
 909396 Bearing eccentric (2)
 909410 Shock-housing alu PTFE coated front (2)
 909411 Shock-housing alu PTFE coated rear (2)
 909445 Piston set key fixed & adjustable (2)
 909513 Centax II clutch-housing universal Light
 909575 Centax gear-pinion steel 15T
 909576 Centax gear-pinion steel 16T
 909577 Centax gear-pinion steel 17T
 909578 Centax gear-pinion steel 18T
 909579 Centax gear-pinion steel 19T
 909580 Centax gear-pinion steel 20T
 909422 Pre-tension spring cup 1/8 alu (2)
 909423 Pre-tension spring-set (3 sets)

Bodies and wings

1754 Body Group C Porsche 962 MS EV2
 1750 Body VDS Lola MS
 1751 Body Mc Laren GT1 MS
 1753 Body Porsche GT1 MS
 1601 Bodyclips (10)
 1722 Trim-strip + nylon mounts
 1723 Bodywashers Silicone (5)
 1724 Body-stiffener Lexan (2)

1725 Side-wing support Foam (2)
 1727 Body Inserts Lexan
 1721 Wing 26 cm Group-C
 1791 Steel wing wire 3mm

Tools

1016 Torx tool
 1460 Camber gauge
 909590 Gear pinion wrench
 909592 Centax clutch housing gripper
 902310 Mounting-tool pivotball

Accessories

1400G Powerstart compact starterbox grey
 1428 Brackets Serpent 950
 1395 Glow-plug starter 1300 mAh /w. cable
 1396 Glowtronic; electronic glowplug igniter
 3400 Break-in bench model-engines
 1680 One way lube 25ml
 1690 Cleaning putty 200 gram

Fastening Material

901185 Screw set alu M4X10 (25)
 901186 Screw set alu M4X12 (60)
 1646 Steel balls 6mm M3 (4)
 1647 Steel balls 6mm (4)
 1650 Balls 6mm/setscrews hex(4)
 1660 Ball-joints 6mm (20)
 1201 E-clip 1,9 (10) R1
 1202 E-clip 2,3 (10) R2
 1203 E-clip 3,2 (10) R3
 1204 E-clip 4.0 (10) R4
 1205 E-clip 5.0 (10) R5
 1207 E-clip 7.0 (10) R7
 1208 Cir-clip 10X1 (10) T10
 1209 G-clip 14X1 (10) S14
 1212 Screw RH PH 2.9X9.5 (10) A5
 1213 Screw RH PH 2.9X13 (10) A6
 1214 Screw RH PH 2.9X16 (10) A7
 1215 Screw RH PH 2.9X19 (10) A8
 1216 Screw RH PH 2.9X25 (10) A10
 1217 Screw RH PH 3.5X9.5 (10) A12
 1218 Screw RH PH 3.5X13 (10) A13
 1219 Screw RH PH 3.5X16 (10) A14
 1220 Screw RH PH 3.5X19 (10) A15
 1225 Screw RH M2X6 (10) C2
 1226 Screw RH M2X6 (10) C5
 1227 Screw RH PH M3X8 (10) D11
 1228 Screw RH PH M3X12 (10) D13
 1235 Screw CH allen M3X6 (10) F10
 1236 Screw CH allen M3X10 (10) F12
 1237 Screw CH allen M3X12 (10) F13
 1238 Screw CH allen M3X16 (10) F14
 1239 Screw RH allen M3X6 (10) E10
 1240 Screw RH allen M3X8 (10) E11
 1241 Screw RH allen M3X12 (10) E12
 1242 Screw RH allen M3X14 (10) E13
 1243 Screw RH allen M3X16 (10) E14
 1244 Screw RH allen M4X6 (10) E17
 1245 Screw RH allen M4X8 (10) E18
 1246 Screw RH allen M4X16 (10) E21
 1250 Grubscrew M3X4 (10) J9
 1251 Grubscrew M3X6 (10) J10
 1252 Grubscrew M4X10 (10) J19
 1255 Grubscrew M3X10 (10) H12
 1256 Grubscrew M3X12 (10) H13
 1257 Grubscrew M4X4 (10) H16
 1258 Grubscrew M4X6 (10) H17
 1259 Grubscrew M5X5 (10) H24
 1260 Grubscrew M5X6 (10) H25
 1261 Grubscrew M4X10 (10) H17
 1268 Screw CSH PH M3X6 (10) G10
 1269 Screw CSH PH M3X16 (10) G14
 1270 Screw CSH PH M3X8 (10) G11

1271 Screw CSH PH M4X8 (10) G18
 1272 Screw CSH PH M4X10 (10) G19
 1273 Screw CSH PH M4X12 (10) G20
 1274 Screw CSH PH M4X16 (10) G21
 1275 Screw CSH PH M5X12 (10) G27
 1278 Screw CSH ALLEN M4X20 (10)
 1279 Screw CSH ALLEN M4X25 (10)
 1280 Screw CSH PH 2,2X6,5 (10) B2
 1281 Screw CSH PH 2,9X9,5 (10) B5
 1282 Screw CSH PH 3,5X9,5 (10) B12
 1283 Screw CSH PH 3,5X13 (10) B13
 1284 Screw CSH PH 3,5X16 (10) B14
 1285 Screw CSH PH 4,2X13 (10) B20
 1290 Washer 3.2X7 (10) N3
 1291 Washer 2.5X6 (10) N4
 1292 Spring washer 6,2X14X0,9
 1293 Spring washer 7,2X14X0,8
 1295 Lock washer 3.2x8 (10) o3
 1297 Nut nylock M3 (10) L3
 1298 Nut nylock M4 (10) L4

Merchandising

1999 NovaMega cap grey Deluxe
 1990 Serpent cap grey Deluxe
 1858 Serpent track banner nylon 140x80cm
 1859 Serpent circuit track decal 140x80cm
 1980 Kit-bag Serpent black-grey
 Serpent T-shirt (check website)
 Serpent sweater (check website)
 Serpent fleece (check website)
 Serpent jackets (check website)

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