

ROAD STAR

10GW



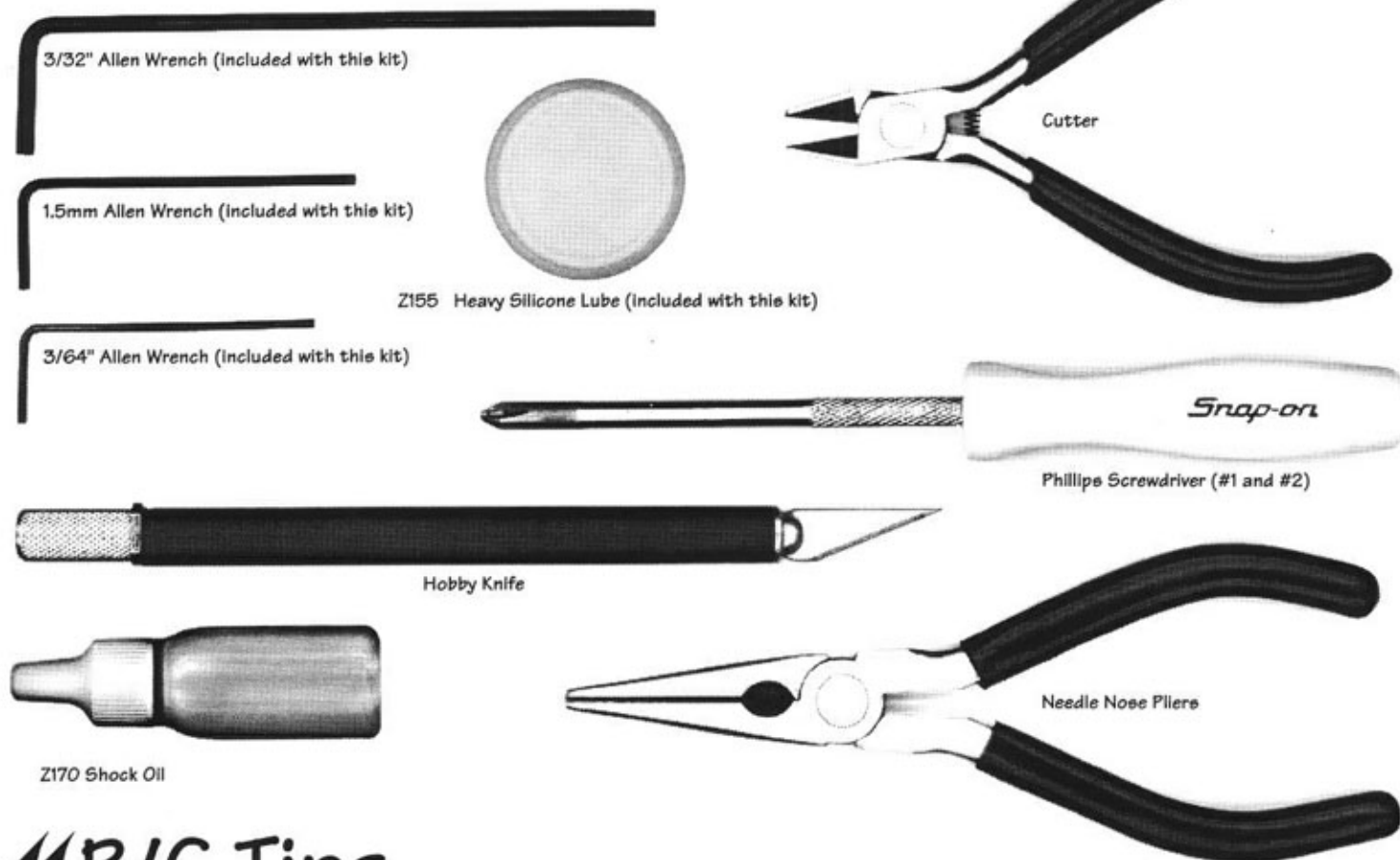
Instruction Manual



HPI JAPAN • 3-25-36 TAKAOKANISHI • HAMAMATSU-SHI, SHIZUOKA-KEN • 053-439-0833 • 053-439-0844 FAX
HPI USA • 15321 BARRANCA PARKWAY • IRVINE, CALIFORNIA 92618 • (714) 753-1099 • (714) 753-1098 FAX

Thank you for selecting this HPI racing car! This kit is designed to be easy to build and uses top quality parts for durability and performance. The staff at HPI Racing tries hard to make everything easy to build and trouble-free. If you have any problem with this kit, give us a call and we will do our best to help you.

Tools



R/C Tips

R/C cars are fun to drive, but be aware that driving them in the wrong places can cause serious damage. Never drive near real cars, animals, or people that are unaware that an R/C car is being driven.

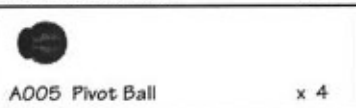


When learning to drive, go to an area that has no obstacles that can damage your car if you have a crash. Stay away from curbs, parked cars, poles, etc. Always wear shoes when driving!

Important basics...

- Build this kit in an area out of reach from children. Tools, parts, and liquids can be dangerous!
- Follow the operating instructions for the radio equipment at all times.
- Always turn on the transmitter before you turn on the car.
- Keep the wheels of the car off of the ground when checking the operation of the radio equipment.
- Always turn off the radio system and unplug the battery pack when not using the car.
- Follow the operating instructions for the Ni-Cd batteries and Ni-Cd battery charger at all times.
- Insulate any exposed electrical wiring with heat shrink tubing to prevent dangerous short-circuits.

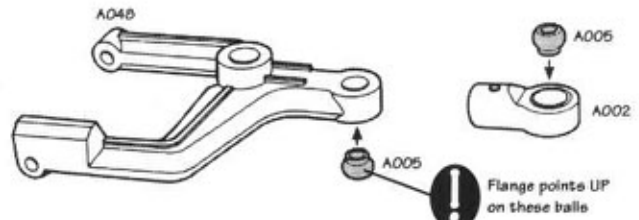
- A04B Lower Arm (R) x 1
- A04B Lower Arm (L) x 1
- A002 Socket Arm x 2



- A005 Pivot Ball x 4

1

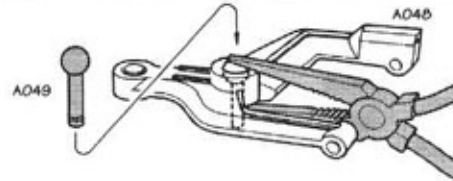
Use needle-nose pliers to press balls into both lower arms and both socket arms. The surface of the pliers should be flat to prevent damage to the balls. The flange of all of the balls should point toward the front axle.



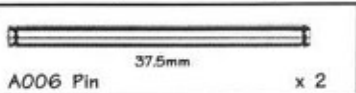
- A049 Joint Pin (B) x 2

2

Use needle-nose pliers to press the joint pins into both lower arms.



- A047 Lower Arm Mount (R) x 1
- A047 Lower Arm Mount (L) x 1
- A04B Caster Block (L) x 1
- A04B Caster Block (R) x 1
- A04B Rising Caster Block (L) x 1
- A04B Rising Caster Block (R) x 1



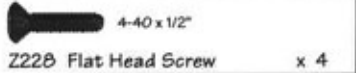
- A006 Pin x 2



- Z200 E Clip x 4



- Z127 Lock Nut x 4



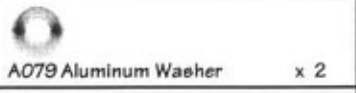
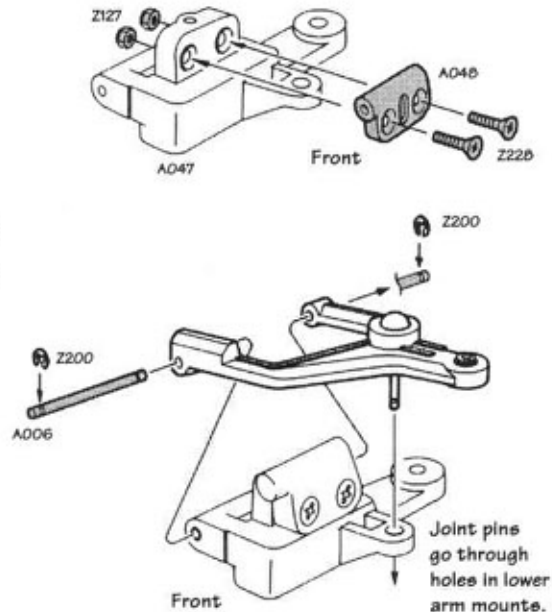
- Z22B Flat Head Screw x 4

3



This kit is supplied with rising-rate and standard caster blocks. We recommend the standard block as a starting point. The rising-rate block is designed to provide more steering under hard cornering. Bolt the caster blocks to the lower arm mounts as shown.

Install lower arms to lower arm mounts with pins and secure with E clips.



- A079 Aluminum Washer x 2



- A095 Front Spring (0.65mm) x 2



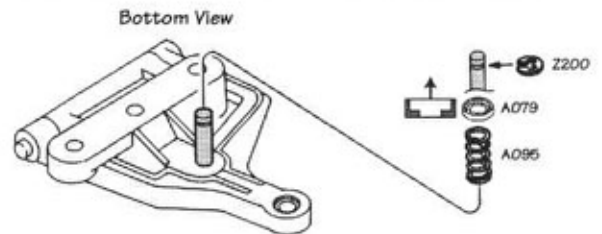
- Z200 E Clip x 2

4

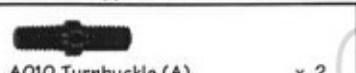
Install washer, spring, and secure with E clip. Compress spring with needle nose pliers if E clip does not slide on easily.

Optional springs available:

- A096 0.70mm
- A097 0.75mm
- A050 0.80mm (kit)



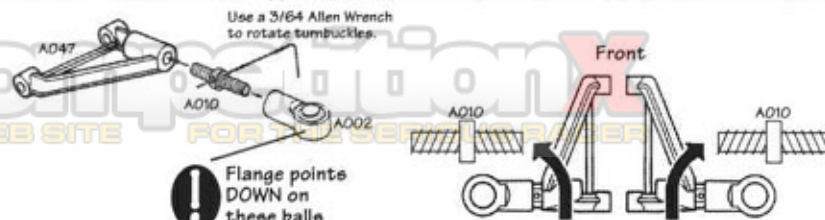
- A047 Upper Arm x 2




- A010 Turnbuckle (A) x 2


5

Screw turnbuckles into both upper arms. The turnbuckles are not symmetrical, so install them as shown.



Rotate turnbuckles toward the front of car for more camber.

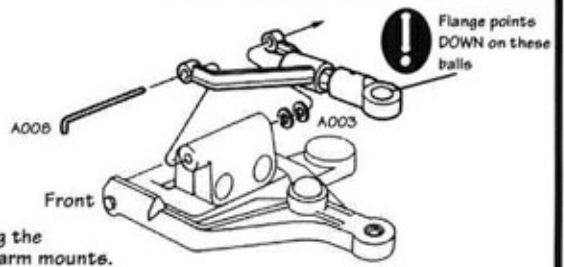
	A008 Upper Arm Pin	x 2
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	(Located on plastic tree) A003 Caster Shim	x 4
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6 Connect upper arms to upper arm mount using upper arm pins.


Caster settings:
 6° All shims toward rear of car
 4° One shim on each side of Caster block
 2° All shims toward front of car


Additional caster positions can be obtained by using the included 2° front suspension shims under the lower arm mounts.



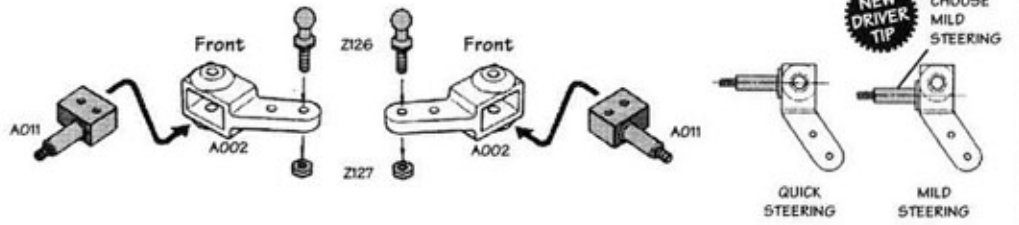
A002 Steering Arms	x 2
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	A011 Front Axle (A)	x 2
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	Z126 Ball End	x 2
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	Z127 Lock Nut	x 2
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7 Press front axles into steering arms. Install ball ends and lock nuts as shown, balls must point up. A 3/16" socket or a Tamiya wrench will make installation easier.




A052 Front Suspension Shim	x 4
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	(Located on plastic tree) A003 King Pin Spacer	x 10
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	A007 Pin	x 2
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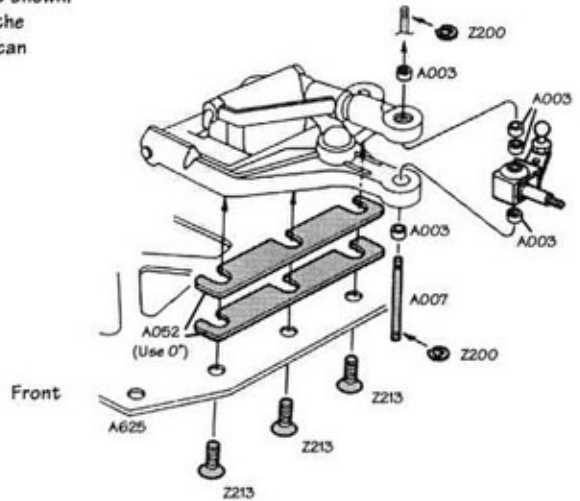
A625 Chassis	x 1
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	1/8" Shaft Z200 E Clip	x 4
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	Ø-32 x 1/2" Green Z213 Flat Head Screw	x 6
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8 Connect suspension to chassis. Suspension shims can be used to adjust ride height. We recommend two 0° shims on each side.

Install king pins and steering arms as shown. Ball ends must point up and toward the back of the car. The king pin spacers can be rearranged to adjust ride height.

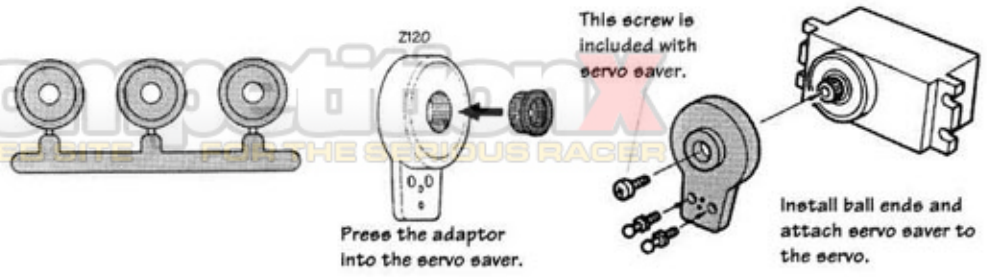


Z120 Servo Saver	x 1
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	Z126 Ball End	x 2
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	Servo Saver Screw	x 1
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9 Choose the adaptor that fits your servo.



- A002 Servo Mount A x 1
- A002 Servo Mount B x 1
- A635 Front Arm Brace x 1
- A767 Friction Shock x 1

- Z125 Ball Cup x 4

- Z126 Ball End x 2

- Z140 Turnbuckle (49mm) x 2

- 4-40 x 3/8" Z206 Flat Head Screw x 2

- 4-40 x 5/16" Z208 Button Head Screw x 6

- M3 x 8 Z224 Washer x 4

- A004 Roll Socket (R) x 1
- A004 Roll Socket (L) x 1
- A004 Pivot Socket (B Thin) x 1
- A004 Pivot Socket (A) x 1
- A004 Pivot Socket (C) x 2
- A004 Pivot Socket (D) x 2
- A013 Roll Brace (Graphite) x 1
- A014 Spring Brace x 1
- A017 Roll Tower x 1

- A016 Pivot Ball (A) x 3

- A018 Roll Spring (1.2mm) x 2

- 4-40 x 3/8" Z206 Flat Head Screw x 3

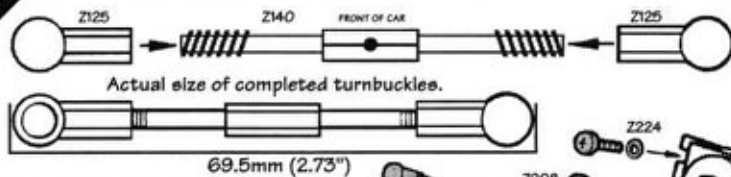
- M2 x 10 Z209 Flat Head Screw x 4

- 2-56 x 5/16" Z210 Button Head Screw x 10

- M2 Z211 Nut x 4

- 2-56 x 3/16" Z221 Button Head Screw x 4

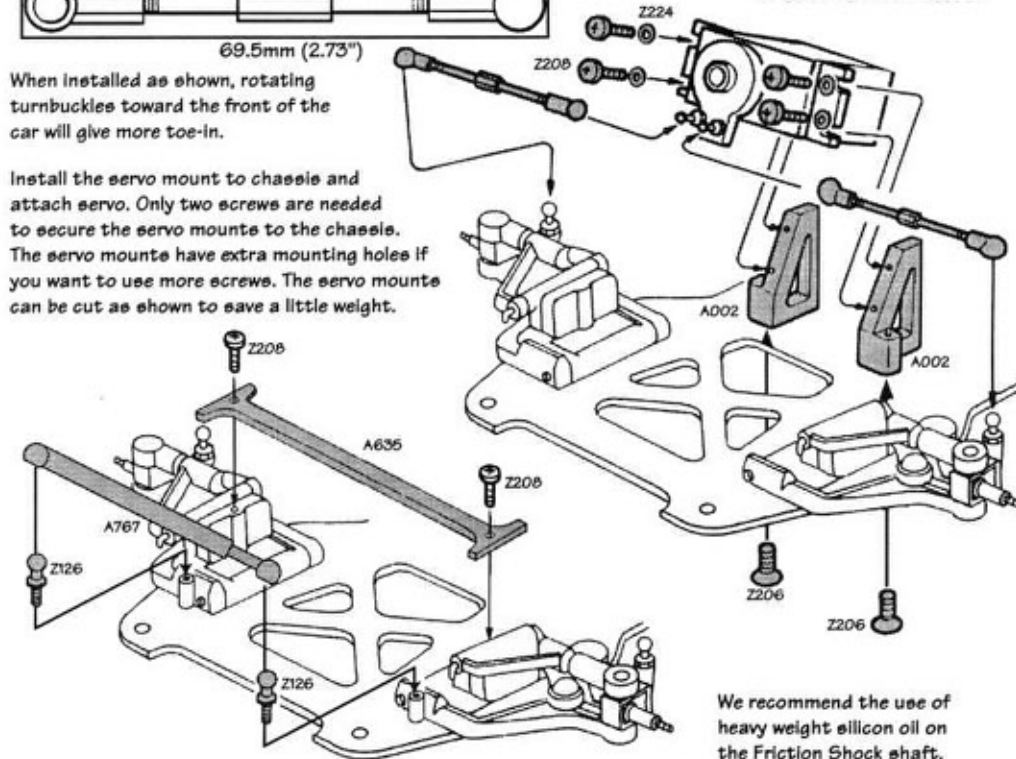
10



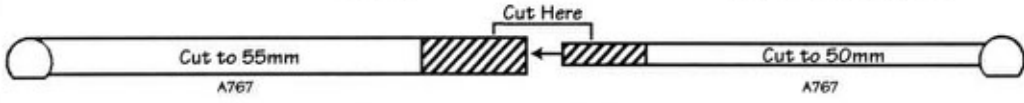
Thread the ball cups onto turnbuckles as shown, noting the direction of the threads.

When installed as shown, rotating turnbuckles toward the front of the car will give more toe-in.

Install the servo mount to chassis and attach servo. Only two screws are needed to secure the servo mounts to the chassis. The servo mounts have extra mounting holes if you want to use more screws. The servo mounts can be cut as shown to save a little weight.

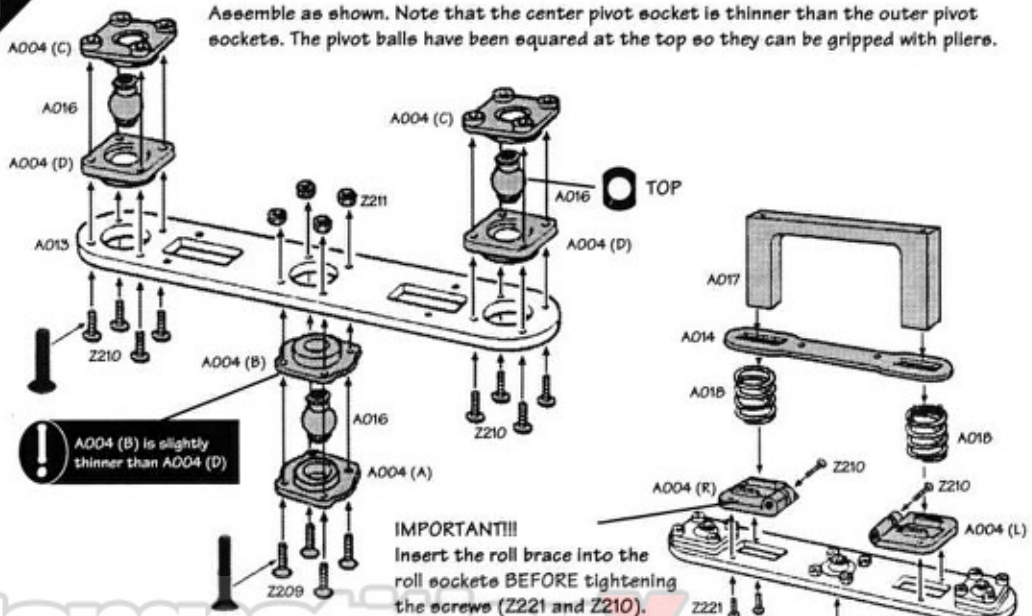


We recommend the use of heavy weight silicon oil on the Friction Shock shaft.



11

Assemble as shown. Note that the center pivot socket is thinner than the outer pivot sockets. The pivot balls have been squared at the top so they can be gripped with pliers.



A004 (B) is slightly thinner than A004 (D)

IMPORTANT!!! Insert the roll brace into the roll sockets BEFORE tightening the screws (Z221 and Z210). After tightening the screws, the roll sockets should slide smoothly. If the roll sockets are too tight, use a file to remove a small amount of graphite (or fiberglass) from the rectangular holes in the roll brace to provide more clearance for the roll sockets. Check again for smooth movement.

- Optional springs available:
- A0B5 1.10mm
 - A018 1.20mm (kit)
 - A0B6 1.30mm
 - A0B7 1.40mm

12

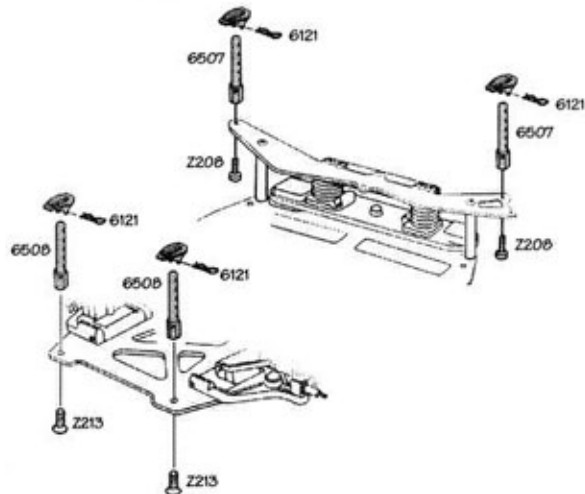
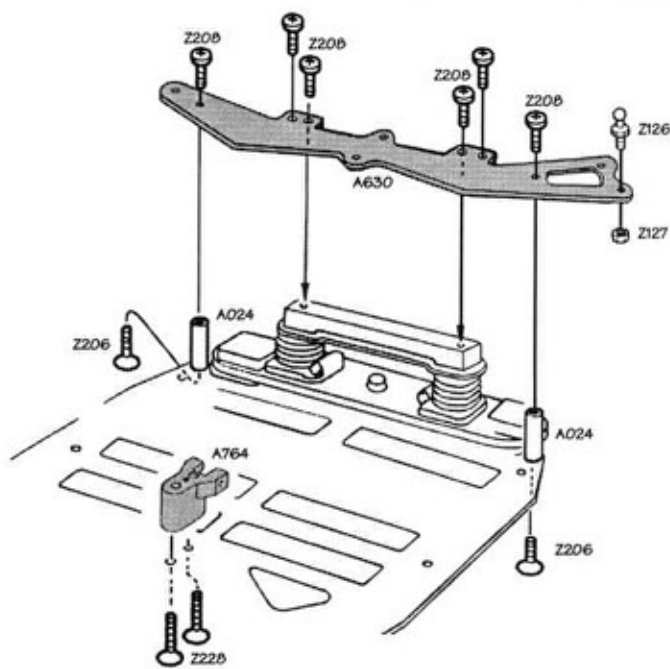
Assemble chassis brace as shown.

We have provided extra holes to position stick packs in two locations. We recommend starting with the pack in the back position. Moving the pack forward will provide more steering on high grip tracks.

When using saddle pack batteries, remove the battery mount (A053). Use a file to round the sharp edges of the chassis plate to prevent damage to the batteries.

Road Star kits have an optional chassis brace that can be used when saddle pack batteries are being used.

Attach body posts. There are extra holes to mount the body posts in different locations to fit a variety of bodies.



	6121 Hood Pin	x 4
	6507 Body Mount 4-40	x 2
	6508 Body Mount 8-32	x 2
	A630 Chassis Brace	x 1
	A764 Shock Mount	x 1

	A024 Aluminum Tube	x 2
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	Z126 Ball End	x 1
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	Z127 Lock Nut	x 1
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	Z206 Flat Head Screw	x 2
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	Z208 Button Head Screw	x 8
--	------------------------	-----

	Z213 Flat Head Screw	x 2
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	Z228 Flat Head Screw	x 2
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13

Assemble rear pod as shown. The ride height of the car can be adjusted using Height Adaptors #1 or #2. When using the tires provided in this kit, Height Adaptor #1 should be used in the position shown.

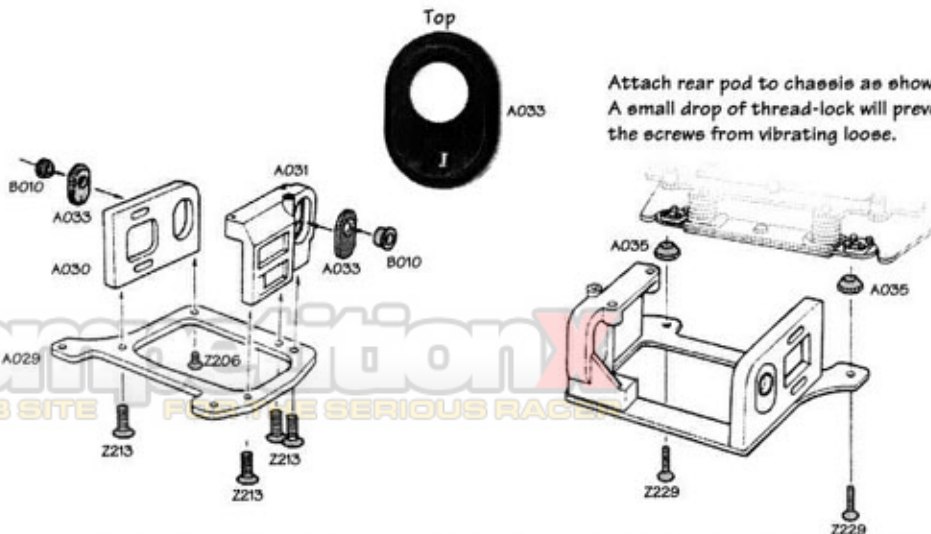
	A029 Lower Brace (Graphite)	x 1
	A030 Motor Mount	x 1
	A031 Left Bulkhead	x 1
	A033 Height Adaptor #1	x 2
	A034 Height Adaptor #2	x 2

	B010 Bearing (rear)	x 2
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	Z213 Flat Head Screw	x 4
--	----------------------	-----

	Z229 Flat Head Screw	x 2
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	A035 Spacer (C) Aluminum Cone	x 2
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Attach rear pod to chassis as shown. A small drop of thread-lock will prevent the screws from vibrating loose.

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- A610 Upper Brace (Graphite) x 1
- A767 Friction Shock x 1

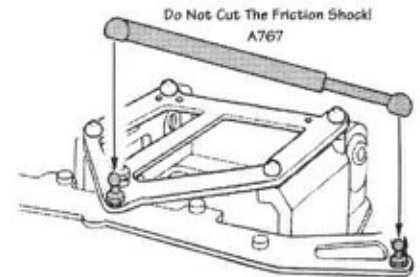
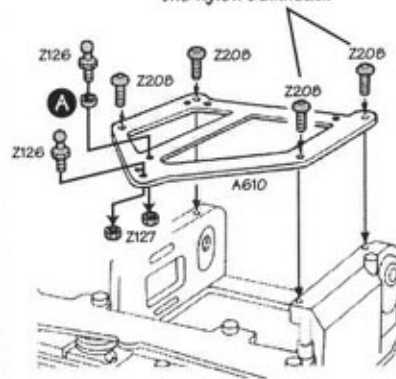
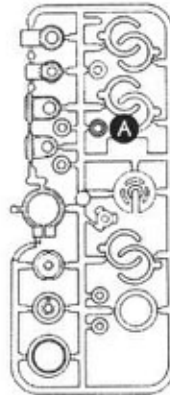
- 4-40 x 5/16" Button Head Screw x 4

- Z126 Ball End x 2

- 4/40 Lock Nut x 2

14

Do not over-tighten the screws that attach the upper brace to the nylon bulkhead.



- 6801 Shock Body x 1

- 6807 Shock Shaft x 1

- 6813 Shock Cap x 1

- 6814 Bladder x 1

- 6817 Shock Parts Set x 1

- 6818 Shock Pistons (Teflon) x 1

- 6819 O-Ring P3 (Red) x 2

- 6836 Spring 1.55mm (Black) x 1

- Z125 Ball Cup x 2

- Z126 Ball End 4-40 Aluminum x 1

- Z170 Silicone Shock Oil (30wt.) x 1

- 4-40 x 5/16" Button Head Screw x 1

- Z208 Button Head Screw x 1

- Z242 E-Clip E2 x 2

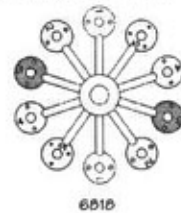
- Z242 E-Clip E2 x 2

- Z242 E-Clip E2 x 2

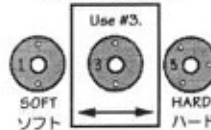
- Z242 E-Clip E2 x 2

15

SHOCK ASSEMBLY



#3 を使用します。

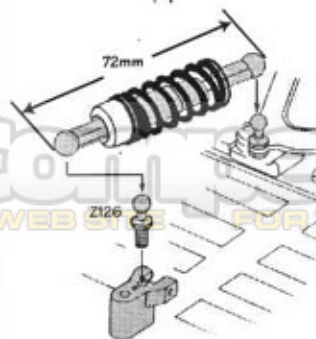


Remove the shock shaft and insert two O-rings and snap on the cap. P3 O-Ringを2個入れます。

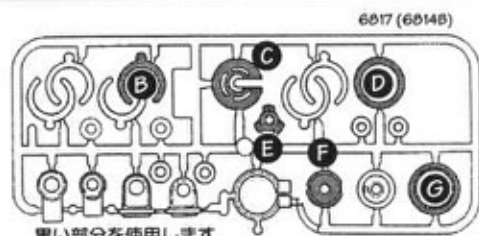
No Bubbles!



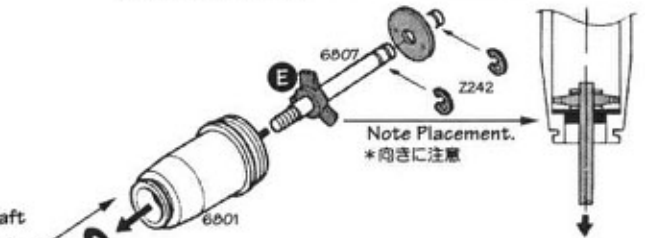
Cut the cap off of the oil bottle and fill shock.



Move the shaft up and down to remove bubbles, then put on the bladder and cap. *ゆっくりピストンを動かし空気を抜いて下さい。



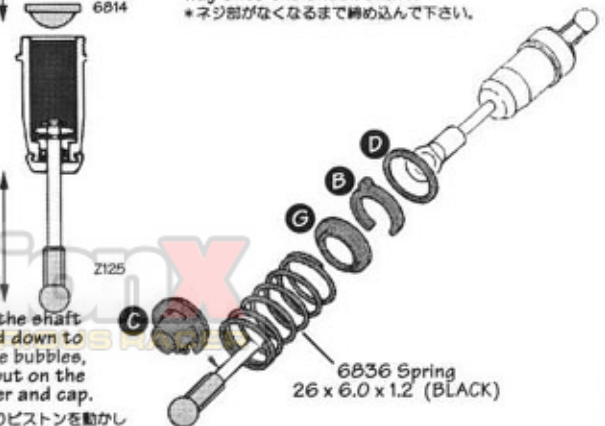
黒い部分を使用します。



Use masking tape to protect shock shaft. *紙を巻くとシャフトを傷つけません。



Screw the ball cup all of the way onto the shock shaft. *ネジ部がなくなるまで締め込んで下さい。

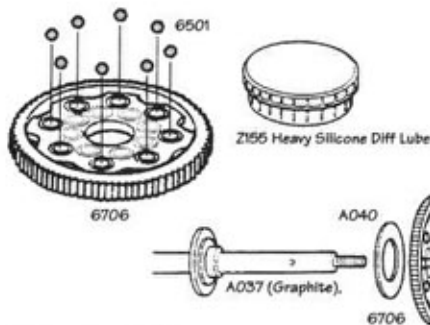


6836 Spring 26 x 6.0 x 1.2 (BLACK)

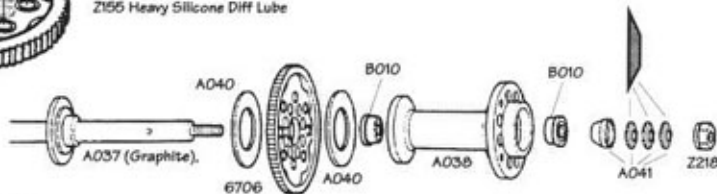
- 6706 Spur Gear (106 T) x 1
- 6501 Diff Ball x 8
- A037 Rear Axle (Graphite, wide) x 1
- A038 Diff Hub (R) x 1
- A040 Drive Ring x 2



16



Press diff balls into outer holes of spur gear. Apply a small amount of diff lube to each ball. Assemble differential as shown. Adjust the diff slippage by tightening or loosening the nylon locknut.



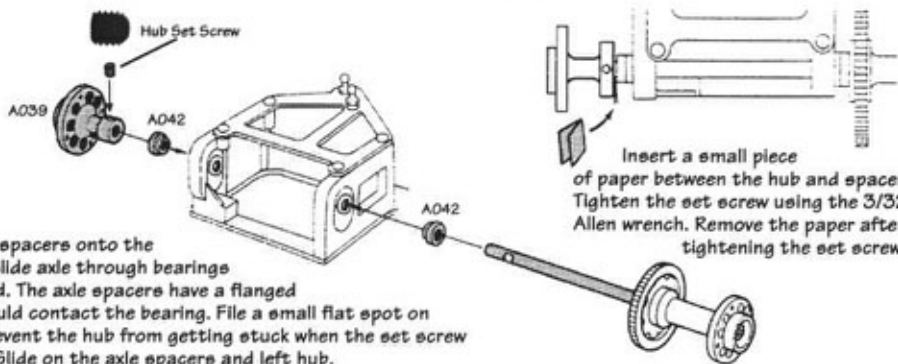
To test diff, hold both wheels and try to spin the spur gear with your thumb. The spur gear should be difficult to rotate when properly adjusted.

- A039 Axle Hub (L) x 1

- 10-32 x 3/16"
- A039 Axle Hub Set Screw x 1

- A042 Axle Spacer x 2

17



Slide the axle spacers onto the diff axle and slide axle through bearings in the rear pod. The axle spacers have a flanged side that should contact the bearing. File a small flat spot on the axle to prevent the hub from getting stuck when the set screw is tightened. Slide on the axle spacers and left hub.

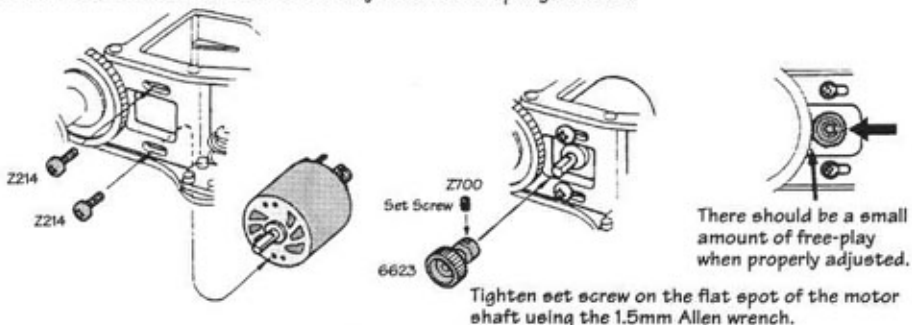
- M3 x 8 METRIC!!
- Z214 Button Head Screw x 2

- 6623 Pinion Gear (23 T) x 1

- M3 x 3
- Z700 Set Screw x 1

18

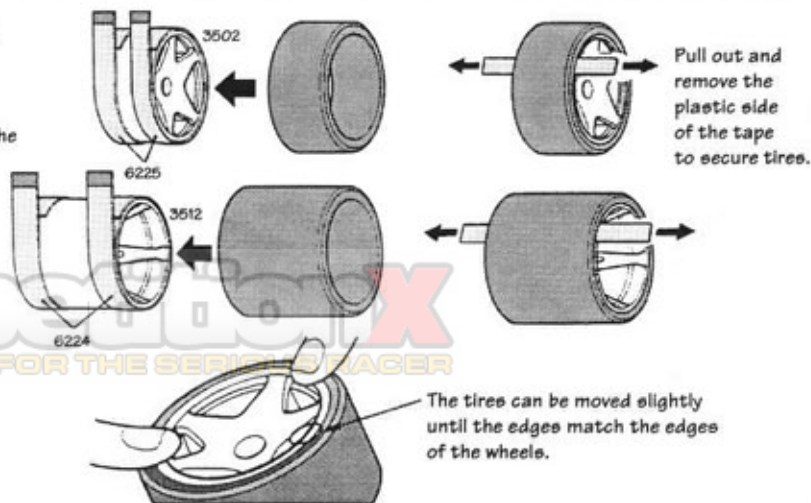
Insert an .05 type motor through the lower pod and secure using the metric motor screws. Slide the pinion gear onto the motor shaft so that the teeth fully contact the spur gear teeth.



- 3502 Front Wheel x 2
- 3512 Rear Wheel x 2
- 4001 1/10 Front K-Rubber x 2
- 4042 1/10 Rear J-Rubber x 2
- 6224 Rear Tire Tape (wide) x 4
- 6225 Front Tire Tape (narrow) x 4

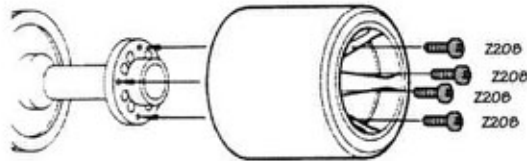
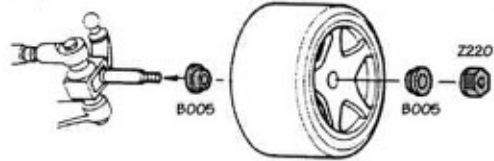
19

Remove the paper side of tire tape and stick tire tape to wheels. Leave the plastic side on the tape and slide the tires onto the wheels.



20

Press the bearings into the front wheels. Slide front wheels onto steering axles and tighten nut. The wheel should spin freely.



Press the rear wheels onto the rear hubs. Secure with wheel screws.

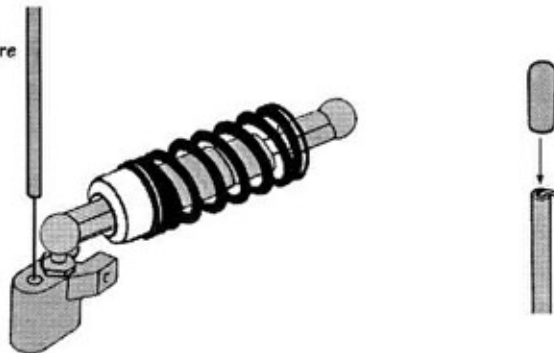
3/16" x 5/16" Flanged
B005 Bearing (Front) x 4

5-40 Black
Z220 Nylon Locknut x 2

4-40 x 5/16"
Z208 Button Head Screw x 8

21

Press antenna tube into the antenna mount. Slide receiver antenna through tube and secure with antenna tube cap.

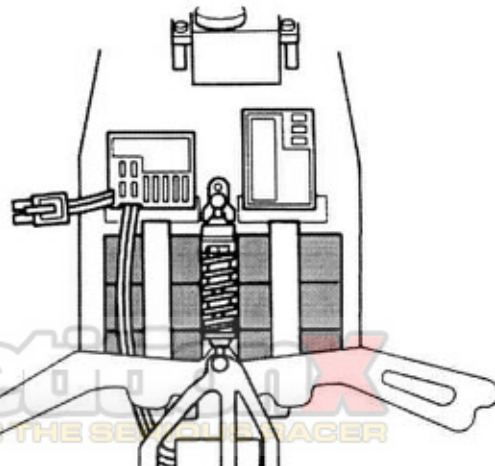


Z150 Antenna Tube x 1
Z150 Antenna Tube Cap x 1

22

Install batteries as shown.

Saddle Packs



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Don't forget to file the sharp edges of the chassis to prevent damage to the batteries.

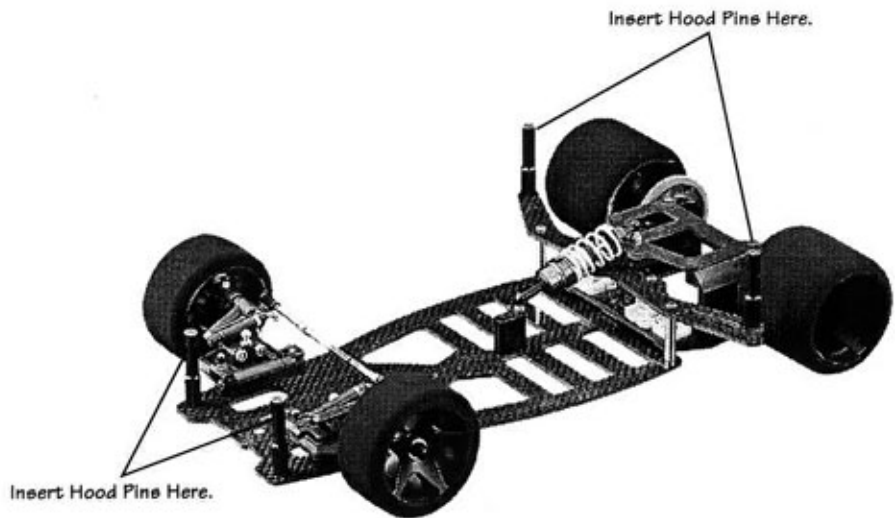


6122 Hood Pin

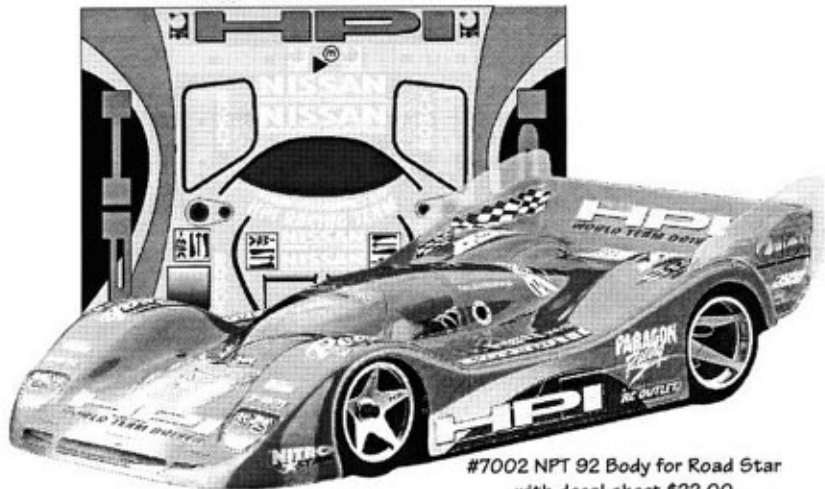
x 4

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Use the adjustable body mount to adjust the height of the body. Body not included. We recommend our HPI #7002 NPT '92 body that is designed to fit perfectly on this chassis.



All Bodies include a FREE decal sheet.



#7002 NPT 92 Body for Road Star
with decal sheet \$22.00

CompetitionX
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RACING TIPS

This HPI car has several ways to adjust the handling of the car for maximum performance. The following information will help you tune the car to the track conditions. The best way to learn how to adjust the car is to practice and test as much as possible!

SLIPPERY TRACK CONDITIONS

- Adjust front suspension to 6° caster position, see diagram below and page 4.
- Set the front axle to "Mild Steering" position, see page 4.
- Use a mild motor, large pinion gear, and an ESC with a current limiter set for smooth throttle response.
- Check turning radius in both directions, adjust steering radius to smallest amount that allows you to steer around sharpest corner.
- Try a harder front tire compound. Use tire traction sauce on rear tires. Make sure rear tires are in good condition.
- Make sure car is "tweaked" flat, see diagram below.

BUMPY TRACK CONDITIONS (Use the same settings as for slippery conditions, plus the following settings)

- Adjust ride height for more ground clearance to prevent chassis from "bottoming out" over bumps, see page 4 and 6.
- Use very light silicone lube on the dampener washers, see page 7.

VERY HIGH GRIP TRACK CONDITIONS

- Adjust front suspension to 2° caster position, see diagram below and page 4.
- Set the front axle to "Quick Steering" position, see page 4.
- Use extra amount of silicone lube or heavier silicone lube on dampener washers, see page 7.
- Lower the chassis by using small tires front and rear, or adjusting the front kingpin spacers and rear height adaptors.

TUNING THE FRONT SUSPENSION

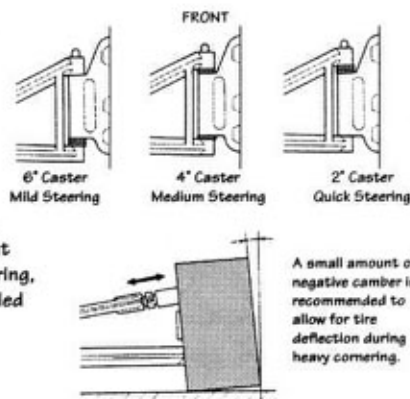
This HPI car has a unique double-wishbone front suspension that allows you to make adjustments that will help the car perform better.

CASTER

The caster of the suspension can be adjusted using the supplied caster shims. The goal of adjusting the caster is to make the car easy to drive. When built with both shims toward the rear of the car, the steering will be mild and the car will return to a very stable straight line. When built with both shims toward the front of the car, the steering will be more sensitive to small steering movements.

CAMBER

The camber of the suspension can be adjusted by rotating the turnbuckles. The goal of adjusting the camber is to adjust the suspension to provide even wear across the entire front tire. The turnbuckles have asymmetrical threads that allow you to make easy changes to the settings without removing any components. When built as described in Step 5, rotating the turnbuckles toward the front of the car will give more camber. Since foam tires have a small amount of deflection during hard cornering, we recommend a small amount of negative camber for proper tire wear. If more negative camber is needed to make the tires wear flat, rotate the turnbuckles a small amount toward the front of the car.



TUNING THE REAR SUSPENSION

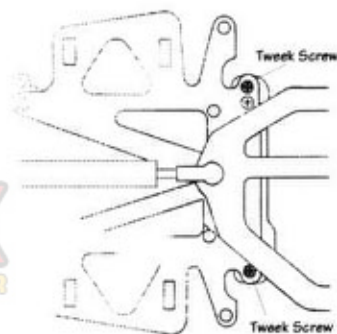
This HPI car features a Triple-Pivot rear suspension that allows you to make adjustments that will help the car perform better.

TWEEKING THE CAR FLAT

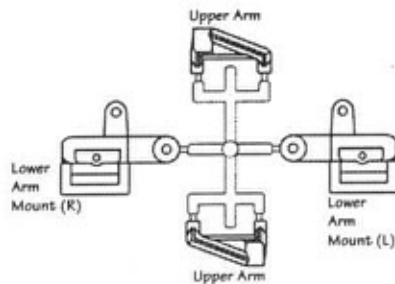
The "tweak" of the car can be adjusted. The goal of adjusting the tweak is to provide equal weight on the rear tires so that the car corners equally when turned to the left and right. To test the tweak of the rear tires, place the car on a flat surface and use a small screwdriver to lift the center of the lower brace. When the tires lift off the ground, they should both lift at the same time. If one tire lifts later than the other, then that tire has more weight being applied to it, making the car unbalanced. Use the tweak screws to adjust the pressure applied to the spring brace until both rear tires lift at the same time. Rotating the tweak screw in the clockwise direction makes that tire heavier.

ADJUSTING THE RIDE HEIGHT OF THE CHASSIS

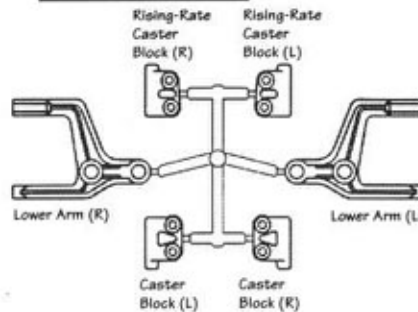
The shock can be used to adjust the ride height of the chassis. The goal of adjusting the ride height is to make the chassis flat from the front of the car to the rear of the car. To check the ride height, place the car (with battery, radio, and motor installed) on a flat surface. Shim the shock using the spacers from Part #6017.



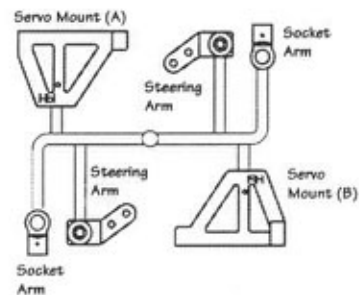
A047 Front Suspension (A)



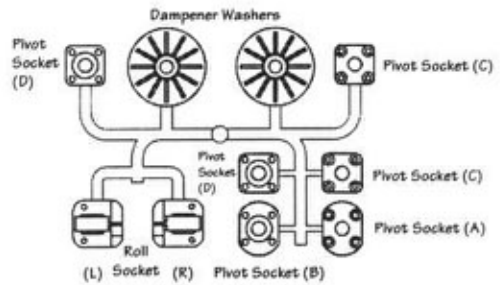
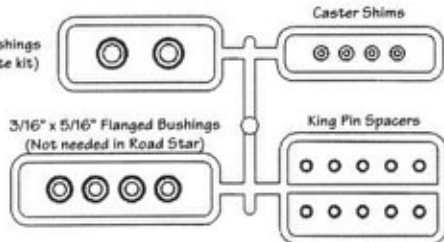
A048 Front Suspension (B)



A002 Steering Parts



1/4" x 3/8" Flanged Bushings
(Not needed in Graphite kit)



A003 Shim/Bushing Set

A004 Rear Suspension

HPI RACING PARTS

Part #	QTY	Name	Retail Price	Part #	QTY	Name	Retail Price
3502	2	1/10 STAR ON ROAD RIMS BLACK (F)	\$6.00	A041	1	DIFF. CONE SET	\$2.00
3512	2	1/10 STAR ON ROAD RIMS BLACK (R)	6.00	A042	4	AXLE SPACER	5.00
5103	2	GREEN TRUED DONUT (F)	8.50	A046	4	O-RING P3 BLACK	1.00
5113	2	GREEN TRUED DONUT (R)	9.00	A047	1	FRONT SUSPENSION (A)	5.00
6075	6	WASHER (COUNTERSUNK ALUMINUM)	4.00	A048	1	FRONT SUSPENSION (B)	5.00
6122	10	BODY PIN (M)	2.00	A049	2	JOINT PIN (B)	4.50
6151	1	SILICONE OIL #500	4.00	A050	2	FRONT SPRING 0.80mm	3.00
6160	6	REAR AXLE SPACER SET (ALUMINUM)	7.50	A052	4	FRONT SUSPENSION SHIM (0".2)	1.50
6163	1	SERVO TAPE	4.00	A054	2	ALUMINUM TUBE 12.5mm	3.00
6224	8	TIRE TAPE WIDE	6.25	A055	1	SHOCK MOUNT W/SPACER	1.50
6225	8	TIRE TAPE NARROW	4.50	A067	4	AXLE SPACER 5mm	6.00
6501	8	DIFF. BALLS 1/8"	2.00	A071	2	TURNBUCKLE 61mm	7.00
6507	2	BODY MOUNT 4-40	3.50	A073	2	ALUMINUM TUBE 8mm	2.00
6508	2	BODY MOUNT 8-32	3.50	A085	2	ROLL SPRING 1.1mm	2.00
6625	1	PINION GEAR 25 TOOTH (64 PITCH)	5.99	A086	2	ROLL SPRING 1.3mm	2.00
6694	1	SPUR GEAR 94 TOOTH (64 PITCH) (W/BALLS)	4.99	A087	2	ROLL SPRING 1.4mm	2.00
6805	1	SHOCK BODY 12 x 45-56mm	9.80	A095	2	FRONT SPRING 0.65mm (Pink)	2.00
6807	1	SHOCK SHAFT 3 x 31mm	3.00	A096	2	FRONT SPRING 0.70mm (Green)	2.00
6813	1	SHOCK CAP 12mm (GREY ANODIZED)	3.50	A097	2	FRONT SPRING 0.75mm (Blue)	2.00
6814	2	BLADDER 10 x 4mm	2.00	A111	2	SUPER SHOCK SET 45-56	32.00
6817	1	10mm SHOCK PARTS SET	4.50	A610	1	RS10G & 10GW REAR UPPER BRACE (Woven Graphite)	15.00
6818	1	10mm PISTONS TEFLON SET	4.00	A625	1	RS10GW MAIN CHASSIS (Woven Graphite)	60.00
6819	5	SILICONE O-RING P-3 (RED)	1.50	A630	1	RS10GW CHASSIS BRACE (Woven Graphite)	12.00
7002	1	NPT 92 Body for RS10GW	22.00	A635	1	RS10GW FRONT ARM BRACE (Woven Graphite)	9.00
A002	1	STEERING PARTS SET	6.00	A767	1	FRICTION SHOCK SET	5.00
A003	1	SHIM/BUSHING PARTS SET	6.50	B005	2	BEARING 3/16" x 5/16" FLANGED	13.00
A004	1	REAR SUSPENSION PARTS SET	6.50	B010	2	BEARING 1/4" x 3/8" FLANGED	14.00
A005	5	PIVOT BALL SET	6.00	Z120	1	SERVO SAVER SET (WITH SCREW)	5.50
A006	2	PIN 37.5mm	5.00	Z125	14	BALL CUP	5.00
A007	2	KING PIN 29.5mm	5.00	Z126	4	4-40 BALL END	5.00
A008	2	PIN 2 x 31mm	3.50	Z127	4	4-40 LOCK NUT	2.50
A010	2	TURNBUCKLE (A) 16mm	5.00	Z140	2	TURNBUCKLE (B)	7.00
A011	2	FRONT AXLE (A)	24.00	Z150	1	ANTENNA PIPE SET	1.00
A013	1	ROLL BRACE (GRAPHITE)	12.00	Z155	1	DIFF. LUBE	2.00
A014	1	SPRING BRACE	4.00	Z200	10	E-CLIP 1/8"	1.00
A015	1	ALUMINUM TUBE 18.5mm	1.50	Z206	4	4-40 x 3/8" FLAT HEAD SCREW	1.00
A016	3	PIVOT BALL (A)	5.00	Z207	6	4-40 x 5/16" BUTTON HEAD SCREW	2.00
A017	1	ROLL TOWER	18.00	Z208	4	4-40 x 5/16" BUTTON HEAD SCREW	1.00
A018	2	ROLL SPRING (A)(1.20mm)	2.00	Z209	8	M2 x 10 FLAT HEAD SCREW	2.00
A024	3	ALUMINUM TUBE 25mm	5.00	Z210	10	2-56 x 8/16" BUTTON HEAD SCREW	2.00
A029	1	LOWER POD BRACE (GRAPHITE)	19.00	Z211	8	M2 NUT	2.00
A030	1	MOTOR MOUNT (RIGHT)	25.00	Z213	8	8-32 x 1/2" FLAT HEAD SCREW (GREEN)	1.50
A031	1	BULKHEAD (LEFT)	2.50	Z214	4	M3 x 8 BUTTON HEAD SCREW	1.00
A033	2	HEIGHT ADAPTOR #1	1.00	Z218	4	8-32 NYLON NUT	1.50
A034	2	HEIGHT ADAPTOR #2	1.00	Z220	6	5-40 NYLON NUT	1.50
A035	2	SPACER (C) ALUMINUM CONE	2.50	Z221	10	2-56 x 3/16" BUTTON HEAD SCREW	2.00
A037	1	REAR AXLE (GRAPHITE)	22.50	Z224	6	WASHER M3 x 8	2.00
A038	1	DIFF. HUB (RIGHT)	15.00	Z228	6	4-40 x 1/2" FLAT HEAD SCREW	2.00
A039	1	HUB (LEFT) (WITH SCREW)	15.00	Z230	6	4-40 x 3/4" FLAT HEAD SCREW	2.00
A040	2	DRIVE RING	1.50	Z900	1	ALLEN WRENCH SET (3/64", 1.5mm, 3/32")	1.50