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 instruction manual you are reading was designed to be easy to follow yet thorough in its explanations. We at HPI Racing want you to not only enjoy driving your new race car but building it as well. If you come across any problems or need some help getting through a step, give us a call and we will do our very best to help you.

TOOLS YOU’LL NEED TO ASSEMBLE THIS KIT:

1. #1 Phillips Screwdriver
   プラストライバー大
2. #2 Phillips Screwdriver
   プラストライバー小
3. Needle Nosed Pliers
   ルウサイベンチ
4. Glow Plug Wrench (8mm)
   グローブラグレンチ (8mm)
5. Side Cutters
   ニッパー
6. Hobby Wrench
   ホビーレンチ
7. Hobby Knife
   ホビーナイフ
8. Super Glue
   超接着剤

RADIO CONTROL SYSTEM

You will need a 2-channel radio system with two servos, an external battery pack and an ON/OFF switch.

TOOLS INCLUDED WITH THIS KIT:

1. 2.5mm Allen Wrench (Z903)
   2.5mmヘキサレンチ
2. 1.5mm Allen Wrench (Z901)
   1.5mmハンドレンチ
3. Shock Oil (Z165)
   ショックオイル
4. Grease (Z160)
   グリス

You will need glow fuel (specifically designed for model car engines) and a glow plug igniter to start the engine.

Nitro RS4 is a high-performance model car. Please handle with care and ensure the appropriate tools are used for assembly. If you encounter any issues during the assembly process, please contact us and we will do our best to assist you.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Image</th>
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<tbody>
<tr>
<td>6607</td>
<td>Shock Shaft (Black)</td>
<td><img src="https://example.com/image1.jpg" alt="Image" /></td>
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<tr>
<td>6619</td>
<td>O-Ring P3 (Red)</td>
<td><img src="https://example.com/image2.jpg" alt="Image" /></td>
</tr>
<tr>
<td>A136</td>
<td>Bell 4.7 x 14 mm (Gray)</td>
<td><img src="https://example.com/image3.jpg" alt="Image" /></td>
</tr>
<tr>
<td>A155</td>
<td>Steering Joint</td>
<td><img src="https://example.com/image4.jpg" alt="Image" /></td>
</tr>
<tr>
<td>A156</td>
<td>Threaded rod 4-40 x 34 mm</td>
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</tr>
<tr>
<td>A168</td>
<td>Shaft 4-40 x 20 mm (Silver)</td>
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<tr>
<td>A167</td>
<td>Shaft 4-40 x 24 mm (Black)</td>
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<tr>
<td>A260c</td>
<td>Flange Shaft 3 x 20 mm (Black)</td>
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<tr>
<td>A280b</td>
<td>Flange Shaft 3 x 30 mm (Black)</td>
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</tr>
<tr>
<td>A281</td>
<td>Flange Shaft 3 x 40 mm (Silver)</td>
<td><img src="https://example.com/image10.jpg" alt="Image" /></td>
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<tr>
<td>A430f</td>
<td>TP Binder Screw M2 x 12 (Black)</td>
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<tr>
<td>A50c</td>
<td>Shaft (Silver) 3 x 22</td>
<td><img src="https://example.com/image12.jpg" alt="Image" /></td>
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<td>A504</td>
<td>Washer M7 x 12 x 0.8 (Black)</td>
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<td>A615</td>
<td>Throttle Linkage Spring</td>
<td><img src="https://example.com/image14.jpg" alt="Image" /></td>
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<td>A690c</td>
<td>Throttle Linkage rod</td>
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<tr>
<td>A880c</td>
<td>Brake Linkage Rod (Black)</td>
<td><img src="https://example.com/image16.jpg" alt="Image" /></td>
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<tr>
<td>A890c</td>
<td>Brake Arm</td>
<td><img src="https://example.com/image17.jpg" alt="Image" /></td>
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<tr>
<td>A896</td>
<td>Stopper (M3) Aluminum</td>
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<tr>
<td>A936</td>
<td>Pin 1.5 mm</td>
<td><img src="https://example.com/image19.jpg" alt="Image" /></td>
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<tr>
<td>B072</td>
<td>Metal Bushing 5 x 11 x 4 mm</td>
<td><img src="https://example.com/image20.jpg" alt="Image" /></td>
</tr>
<tr>
<td>B080</td>
<td>Metal Bushing 10 x 15 x 4 mm</td>
<td><img src="https://example.com/image21.jpg" alt="Image" /></td>
</tr>
</tbody>
</table>
All parts are shown at 50% actual size. Do not throw away any pieces that you cut from the trees until after the kit is assembled.
To prevent any serious personal injury and/or damage to property, please be responsible when operating all remote controlled models. Extra attention is called for when operating any glow fuel powered model, such as the Nitro RS4. These models can exceed speeds of 31 mph (50 km/h) and use highly poisonous and flammable fuels.

**CHOOSE THE RIGHT PLACE TO OPERATE YOUR R/C MODEL**

Never operate R/C models anywhere listed below:

1. On any public streets or highways - this could cause serious traffic accidents, personal injuries and/or property damage.
2. Near people or animals - never run your model anywhere using people or animals as markers or obstacles.
3. In hallways, alleys, or any other restricted or confined areas that can cause personal injuries and/or property damage.
4. Anywhere where loud noises can disturb others, such as around hospitals or residential areas.
5. During the early morning or late night hours when visibility is limited and loud noise can disturb neighbors.
6. Indoors or around furniture - there could be a chance of the R/C model damaging the surface or any objects in the area.

**NEVER RUN ANY TYPE OF R/C MODEL IN THE VICINITY OF HEATING DEVICES OR OPEN FLAMES**

Glow fuel powered R/C models use highly flammable fuels. Do not smoke when fueling or operating a glow fuel powered R/C model, and do not run near open flames or heating devices - doing so can cause explosions and/or serious accidents.

**OPERATE GLOW FUEL POWERED MODELS IN AN OPEN, WELL VENTILATED OUTDOOR AREA**

Glow fuel powered model engines emit poisonous vapors and gases - these vapors irritate the eyes and can be highly dangerous to your health.

**NEVER USE GASOLINE**

Engines used in R/C models were specifically designed for use only with approved glow fuels. Non-approved fuels such as gasoline can cause explosions and serious personal injuries and/or property damage.

**GLOW FUEL ENGAGED R/C MODEL OPERATING PROCEDURES**

Follow this set of rules to prevent “runaways”:

1. Always have the R/C model atop a box or similar platform so that the tires do not touch the ground.
2. When starting, always turn on the transmitter first, then the receiver.
3. Before fueling or starting model, double check servos, trims, throttle linkage, brake, fuel tank, fuel lines and receiver battery pack voltage. Re-adjust or replace worn or defective parts.
4. Fill fuel tank slowly and carefully to avoid overflowing or spilling of fuel. Wipe any excess fuel off immediately. Tightly close fuel tank cap and ensure it is properly sealed.
5. We recommend you run the tank dry to turn off the engine. If you must stop before the tank is empty, properly discard the excess fuel in a safe container.
6. When stopping, always turn off the receiver battery pack first, followed by the transmitter.

**CERTAIN PARTS WILL BE VERY HOT**

With any engine powered vehicles, certain engine components get very hot during operation. Never touch the cylinder cooling head, muffler, or exhaust pipe - doing so could cause burns or other personal injuries.

**BE AWARE OF ROTATING PARTS**

When the engine is running, there are certain parts that rotate at high speeds. Do not touch the drive gears, drive shafts, wheels, etc. during operation - doing so could cause serious personal injuries.

**RADIO PRECAUTIONS**

Before every run, ensure that you are the only one operating on your particular frequency. Also check that the transmitter and receiver battery packs are sufficiently charged. Failure to do both could cause a loss of vehicle control and could result in serious personal injuries and/or property damage.

**FUEL TANK PRECAUTIONS**

Before every run, ensure that the fuel tank cap is tightly sealed. Fuel leaks can cause fires or explosions. Also, never transport or store an R/C model with fuel in the fuel tank. Doing so could result in personal injuries and/or property damage.

**GENERAL FUEL PRECAUTIONS**

Glow fuels contain Methanol and Nitro Methane - both highly flammable and poisonous chemicals. Avoid contact with eyes and skin. Never use glow fuel indoors - only in well ventilated areas. Glow fuel emits harmful vapors and can be hazardous to your health. Read all warning labels and instructions prior to use. Keep all fuels chemicals away from children.

Never use glow fuels in any other engine except those designed for use with glow fuels. Also, never substitute any other type of fuel in place of glow fuels - especially gasoline. Doing so could result in explosions and serious personal injuries and/or property damage.

**STORING GLOW FUEL**

Do not store glow fuel indoors or where children can easily access it. Instead, store glow fuel in a safe, well ventilated place, away from heating devices, open flames, direct sunlight or batteries. If glow fuel spills, wipe spill immediately to prevent any fire hazards. Do not store glow fuel in any other container than that which it came in. Keep glow fuels and any other dangerous chemicals away from children.

**IN CASE OF EMERGENCY**

Glow fuels are extremely dangerous when used improperly. Here are some first aid tips when using glow fuel:

1. If glow fuel is swallowed, induce vomiting and contact a physician immediately.
2. In case of eye contact, flush eyes thoroughly with warm (not hot) water and contact a physician immediately.
3. In case of skin contact, wash areas with warm (not hot) water and soap.
1. **SHOCK ASSEMBLY (Make four shocks).** 

4 本のショックを作ります。

- **A540** Shock Body Set (レギュレーター) x 2
- **6807** Shock Shaft (ショックシャフト) x 4
- **6812** Shock Cap (Silver) (ショックキャップ) x 4
- **6814** Bladder (ブラダー) x 4
- **6817** Shock Parts Set (ショックパーツセット) x 4
- **6819** O-Ring (Red) (シリコンO-リング P-3) x 8
- **6836** Spring 1.55mm Black (スプリング (ブラック)) x 4
- **Z242** E-Clip (E リング) x 8
- **Z170** Shock Oil (オイル) x 1

**OPEN BAG A**

**OPTIONAL PARTS**

- **6807** Stainless Steel Shock Shaft x 4
- **6818** Shock Pistons (Teflon) x 2

---

**SHOCK ASSEMBLY**

- Insert two O-rings and snap on the cap. 
  - 0リングを2個入れます。

- Use masking tape to protect the shock shaft. 
  - *紙を巻くとシャフトを保護できます。*

  Screw the ball cup all the way onto the shock shaft.
  - キャップをネジでしっかり締めてください。

- Cut the cap off of the oil bottle and fill shock. Assemble shock as shown.
  - オイルボトルのキャップを切ってショックに詰めます。
  - 製品説明書に従ってショックアセンブリを行ってください。

- NO BUBBLES! 
  - 4612

- Cut cap
  - 6812

- Move the shaft up and down to remove bubbles, then put on the bladder and cap. 
  - シャフトを上下させて気泡を取り除きます。次にブラダーとキャップを装着します。

- *ゆっくりピストンを動かして空気を抜いてください。*
DIFFERENTIAL ASSEMBLY (Build two differentials). 2セット作ります。

重要!!

IMPORTANT!!!

Apply #Z160 grease on all parts shaded gray.
* グリースを塗ってください。

Snap E-Clip onto Diff Shaft.
* クリークを差し込んでください。

Brake and Rear Diff Case Assembly.

IMPORTANT!!!

Tighten screws to 18mm (1/16") width.
* 18mmに調整してください。

Use #4 Hole
* 4穴を使います。

Do Not Cut
* 割らないでください。

Page 7
6. REAR SUSPENSION ASSEMBLY.
(Build both sides.)

Get your hands dirty and have fun!

7. CENTER DRIVE ASSEMBLY.

Note: Step in shaft points in this direction.

If you are unsure, please refer to the instructions provided with the kit.

---

NOTE: Do Not Throw Anything Away! Keep all parts until after the kit is assembled!

OPEN BAG D

A550 or A552 is in the Decal Bag.

Mount both rear shocks.

Attach belt to both pulleys before screwing assembly to chassis.

---

A430 1ST Pulley x 2
A430A 1ST Pulley Guide x 2
A470 Rear Bulkhead Set x 1
A534 Pulley Shaft 56/70mm (Gray) x 1
A534 Belt 53M 162 (047) x 1
B072 Metal Bushing 8 x 11 x 4mm x 2
Z244 E-Clip E4 (Black) x 2
Z254 E-Clip E4 (Silver) x 2
Z667 TP Screw M3 x 10 (Black) x 3

---

A47 5S Small Size Belt

Attach belt to both pulleys before screwing assembly to chassis.

---

A404 Ball 4.7 x 14mm (Gray) x 4
A185 Shaft 4.4 x 34mm (Black) x 2
A280 Shaft 5 x 35mm (Black) x 2
A340 Front Bulkhead Set x 1
A450 Suspension Arm Set x 2
A550 Dog Bone (Silver) 6 x 42.0mm x 2
A552 Dog Bone (Black) 6 x 60mm x 2
A557 Rear Axle (Gray) 5 x 35mm x 2
B072 Metal Bushing 5 x 11 x 4mm x 4
Z125 Ball Cup x 4
Z156 Ball 4.4 x 0 Black x 2
Z242 E-Clip (E2) Silver x 2
Z256 TP Screw M3 x 12mm (Black) x 4
Z257A TP Screw M3 x 12mm (Black) x 4
**Front Suspension Assembly. (Build both sides)**

- Cut off this piece to prevent the belt from rubbing.  
  カットして下さい。

**NOTE!**

- 180mm chassis (33.8mm) (Actual size shown.)  
  ブラシ用 A136 Black を使用します。

- 200mm chassis (40mm) (Actual size shown.)  
  ワイド用 A137 Black を使用します。

---

**Steering Assembly.**

- Attach steering joint as shown.

---

**Open Bag E**

- Use 90 degree steering arm. 90°と書いてある方を使用します。

---

**NOTE!**

- A136 Left arm is marked #2  
  A136 Right arm is marked #1  
  #2 is left, #1 is right.
Adjust gear mesh so that the gears move freely, but without an excessive amount of play. Too large a gap can damage the gears.

* ガタ無くスムーズに回るようにして下さい。

Three servo arms are supplied:
- No. 226 Sanwa, Aic, KO, JR, サンワ
- No. 228 Other.
- No. 229 Fushida, Tamia, フシュダ, タミヤ

Use the screw supplied with the servo to attach servo arm.

"ON4" should be in front!
* サイドはON側を前にして下さい。
NOTE: DO NOT THROW ANYTHING AWAY! Keep ALL parts until after the kit is assembled!

OPEN BAG I

14. RECEIVER MOUNTING.

15. FUEL TANK/FUEL LINE MOUNTING.

Route fuel line through carb handle. チューブを通じてエンジン側に取り付けます。

16. THROTTLE/BRAKE LINKAGE.

Attach fuel lines to carb and muffler as shown below.

We recommend the use of a small tie wrap to avoid fuel spillage.
## MOUNTING BODY.

**VERY IMPORTANT!!**
Nitro engines must have good air circulation!
Cut the windows out to let cooling air inside the car.

*エンジンを冷やす為、ウィンドウ部をカットします。

### Diagram

Mount the front body posts on the bumper to prevent the body from scraping the ground at high speed.

*バンパー部にボディマウントを取り付けます。

### Parts List

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6507</td>
<td>Body Posts 3mm</td>
<td>x 2</td>
</tr>
<tr>
<td>6122</td>
<td>Medium Body Fins</td>
<td>x 8</td>
</tr>
<tr>
<td>A350</td>
<td>Axx Suspension Mount Set x 1</td>
<td></td>
</tr>
<tr>
<td>A450</td>
<td>Suspension Arm Set</td>
<td>x 4</td>
</tr>
<tr>
<td>Z569</td>
<td>TP, Binder Hd Screw M3 x 16</td>
<td>x 2</td>
</tr>
<tr>
<td>Z578</td>
<td>TP Screw M3 x 12mm (Black)</td>
<td>x 4</td>
</tr>
</tbody>
</table>

## MOUNTING TIRES.

Insert foam into tires.

### Diagram

Insert wheels into tires.

*ホイールをタイヤにはめ込みます。

Apply super glue to tire where it touches wheel.

*タイヤとホイールの間に接着剤を流しこみます。

### Parts List

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4512</td>
<td>M Compound Radial Tire</td>
<td>x 4</td>
</tr>
<tr>
<td>A450</td>
<td>Suspension Arm Set</td>
<td>x 2</td>
</tr>
<tr>
<td>Z253</td>
<td>Spring Pin 2 x 10 (Black)</td>
<td>x 4</td>
</tr>
<tr>
<td>Z604</td>
<td>Flange Locknut M4</td>
<td>x 4</td>
</tr>
</tbody>
</table>

---

**OPEN BAG G**

---

**Page 14**
THROTTLE LINKAGE SET-UP

SETTING NEUTRAL

1. Turn on transmitter.
2. Turn on receiver.
3. Center throttle trim.
4. Adjust idle screw so that there is a 1mm opening inside the carb (A).
5. Adjust throttle collar (B) so that the carb is set at neutral.
6. Adjust throttle collar (C) so throttle return spring (D) has light tension.
7. Turn the brake adjustment dial (E) until there is a 0.5mm gap between the brake arm and the adjustment dial.

1. 送信機のスイッチをON し、
2. 受信機のスイッチをON します。
3. スピードのトリムを中央位置に
4. しておきます。
5. ガストリムの調整は、
6. ガストリムの調整を行ってください。
7. 調整スプリングを
8. 0.5mm 間隔に
9. アジャストダイヤルを
10. この位置に
11. ると
12. 見ます。

NOTE: All adjustments are made with the engine off!

* エンジンを停止した状態でセットして下さい。

Use idle screw to adjust the carb opening to 1mm.

NOTE: Make sure the spring isn’t loose.

Adj ust opening to 0.5mm.

Adjust opening to 0.5mm.

Make sure the spring isn’t loose.

Neutral Position.

NEUTRAL POSITION.

NEUTRAL POSITION.

FULL THROTTLE SET-UP

WITH ENGINE OFF:

1. FULL THROTTLE.
2. Adjust throttle end point adjustment (TH-EP) so that the throttle servo stops when the carb is fully open.
3. Make sure there is no binding in throttle linkage during movement.

全開時のセット

1. スロットルトリガーを全開位置にします。
2. キャブレターノズルを全開位置にします。
3. オーバーライトを
4. 切換えます。
5. スロットルトリガーを
6. 全開位置に
7. 帯電します。
8. エンジンを停止した状態で
9. ショックアジャスト
10. ダイアルを回して
11. 平均
12. 設定します。

SERVICE BOX

A WEB SITE FOR THE CEO & BUSINESS

FULL THROTTLE POSITION.

FULL THROTTLE POSITION.

FULL THROTTLE POSITION.

FULL BRAKE SET-UP

WITH ENGINE OFF:

1. Push trigger to full brake position.
2. Adjust throttle end point adjustment (TH-EP) so that the throttle servo stops when the brake plates compress the brake disk.
3. Make sure there is no binding in throttle linkage during movement.

ブレーキ時のセット

1. スロットルトリガーをブレーキ位置にします。
2. ブレーキキャップを
3. 全開位置に
4. 設定します。
5. 動かながら
6. オーバーライトを
7. 調整します。
8. ショックアジャスト
9. ダイアルを回して
10. 設定します。

Later while driving, use this adjustment dial to increase or decrease the brakes.

Note: The brake adjustment is adjustable to increase or decrease the brakes.

FULL BRAKE POSITION.

FULL BRAKE POSITION.

FULL BRAKE POSITION.
Let's get ready! First, read the instructions for your radio completely. If you lose control due to radio problems it will damage the car and motor. Install fresh batteries in transmitter and receiver pack. Extend radio and receiver antennas.

**TURN ON RADIO. 電源の入れ方**
1. Switch on transmitter.
2. Switch on receiver.
3. Check to make sure servos function properly.
4. Check the range of radio by walking away from car.

Always turn on transmitter first! Send vehicle on CN with.

**FUEL FILLING. 給油**
1. Fill tank with high quality glow fuel.
2. Close cap securely after filling.
3. 1.5 – 3.5% nitro glycol.
4. Make sure that the fuel tank is clean and dry.

**NOTE:**
Never use fuel near a heat source or near open flames.

It's time to force the fuel through the fuel lines to the carburetor. Watch the bubbles in the fuel tubing while pushing the primer button to see when the fuel reaches the carburetor.

**PRIMING CARB. チョーク**
1. Push fuel primer button a few times until fuel reaches throttle inlet.
2. Press button two more times to allow fuel to enter throttle valve.

**NOTE:**
Do not over-prime the carb. Doing so will flood the carburetor!

Raise the car so that wheels are not touching the ground. Attach glow plug heater and pull recoil starter several times quickly. Don't pull the cord all of the way out!

**NOTE:**
High RPM during the break-in period and/or pulling the recoil starter cord beyond 40cm can damage the engine.

**STARTING ENGINE. エンジンの始動**
1. Attach glow plug heater.
2. Pull recoil starter using quick, short strokes.
3. Open throttle valve halfway.

**NOTE:**
Make sure there are no obstructions blocking the muffler, air cleaner, or rotating parts (spur gear, clutch bell, etc.).
**OVER-PRIMED. オーバーチューカー**
1. Remove glow plug from the engine using a glow plug wrench.
2. Pull recoil starter until all of the fuel is removed from the cylinder.
3. Wipe any fuel spills immediately.
4. Avoid contact with skin or eyes.
   - Do not breathe fuel vapor.
   - Do not let fuel come into contact with your skin.
   - Wash your hands thoroughly after handling fuel.

**STOPPING ENGINE. エンジンの止め方**
1. Run until fuel is depleted.
2. Restrict airflow to and from the engine.
3. Turn off the engine.
4. Cover air cleaner to restrict intake.

---

**ENGINE BREAK-IN AND TUNING エンジンのブレーキンと調整**

**BREAK-IN THE NEW ENGINE BEFORE DRIVING THE CAR!**

- Choose a well ventilated outdoor area free from dust and set the car on top of a box so that all the wheels are off the ground.
- Fill fuel tank and start engine (see page 16).
- Let engine idle until it runs out of fuel. When the engine stops, allow it to cool then repeat step #2 one more time.
- Fill fuel tank and run the car slowly, checking that the steering and throttle work correctly. Stay in the low and midrange speeds. NEVER use full throttle during break-in. Repeat this process for 3 to 4 tanks, allowing the engine to cool down before refueling.

**TUNING AFTER BREAK-IN.**

1. Set needle valve to starting position (A).
2. Fill fuel tank and start engine (see page 16).
3. Run car to test the throttle response.
4. If throttle response is sluggish and top speeds are slow, close needle valve in graduations (B). If response is good, but at top speed the engine runs rough, open needle valve (C).
5. After needle valve tuning is complete, adjust the idle screw (D) until idle is smooth.

**NOTES**
- The engine should always emit blue exhaust smoke.
- If there is no smoke, the engine is too lean and could easily be damaged.

---

**ENGINE BREAK-IN AND TUNING エンジンのブレーキンと調整**

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**ENGINE BREAK-IN AND TUNING エンジンのブレーキンと調整**

**BREAK-IN THE NEW ENGINE BEFORE DRIVING THE CAR!**

- Choose a well ventilated outdoor area free from dust and set the car on top of a box so that all the wheels are off the ground.
- Fill fuel tank and start engine (see page 16).
- Let engine idle until it runs out of fuel. When the engine stops, allow it to cool then repeat step #2 one more time.
- Fill fuel tank and run the car slowly, checking that the steering and throttle work correctly. Stay in the low and midrange speeds. NEVER use full throttle during break-in. Repeat this process for 3 to 4 tanks, allowing the engine to cool down before refueling.

**TUNING AFTER BREAK-IN.**

1. Set needle valve to starting position (A).
2. Fill fuel tank and start engine (see page 16).
3. Run car to test the throttle response.
4. If throttle response is sluggish and top speeds are slow, close needle valve in graduations (B). If response is good, but at top speed the engine runs rough, open needle valve (C).
5. After needle valve tuning is complete, adjust the idle screw (D) until idle is smooth.

**NOTES**
- The engine should always emit blue exhaust smoke.
- If there is no smoke, the engine is too lean and could easily be damaged.
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE DOES NOT START.</td>
<td>Fuel tank is empty or throttle valve is not primed.</td>
<td>Fill fuel tank with fuel and prime throttle.</td>
</tr>
<tr>
<td></td>
<td>Bad glow plug or dead plug booster battery.</td>
<td>Replace glow plug and recharge or replace battery.</td>
</tr>
<tr>
<td></td>
<td>Fuel lines, air cleaner, or muffler is clogged.</td>
<td>Clean or replace clogged part(s).</td>
</tr>
<tr>
<td></td>
<td>Engine is flooded due to over-priming.</td>
<td>Remove glow plug and discharge fuel. Also test glow plug; replace if defective.</td>
</tr>
<tr>
<td></td>
<td>Throttle valve not adjusted properly.</td>
<td>Set idle and needle valve to standard starting position.</td>
</tr>
<tr>
<td></td>
<td>Servo linkage not adjusted properly.</td>
<td>Move servo to neutral then re-adjust.</td>
</tr>
<tr>
<td>ENGINE STARTS BUT THEN STALLS.</td>
<td>Fuel tank is empty.</td>
<td>Fill fuel tank with fuel.</td>
</tr>
<tr>
<td></td>
<td>Fuel lines, air cleaner, or muffler is clogged.</td>
<td>Clean or replace clogged part(s).</td>
</tr>
<tr>
<td></td>
<td>Throttle valve not adjusted properly.</td>
<td>Re-adjust idle and needle valve.</td>
</tr>
<tr>
<td></td>
<td>Engine is overheated.</td>
<td>Allow engine to thoroughly cool down and open needle valve 2 to 3 turns.</td>
</tr>
<tr>
<td>BAD REACTION AND RESPONSE FROM ENGINE.</td>
<td>Throttle valve not adjusted properly.</td>
<td>Re-adjust needle valve.</td>
</tr>
<tr>
<td></td>
<td>Low fuel pressure from muffler.</td>
<td>Properly install pressure line from muffler to fuel tank.</td>
</tr>
<tr>
<td>CAR IS HARD TO CONTROL.</td>
<td>Weak transmitter and/or receiver batteries.</td>
<td>Recharge or replace batteries.</td>
</tr>
<tr>
<td></td>
<td>Low reception from radio antennas.</td>
<td>Fully extend transmitter and receiver antennas.</td>
</tr>
<tr>
<td></td>
<td>Servo linkage not adjusted properly.</td>
<td>Move servo to neutral then re-adjust.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>原因</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>エンジンがかからない</td>
<td>燃料タンクに燃料を入れ、エンジンまで運び込む。</td>
<td>燃料タンクに燃料を入れ、エンジンまで運び込む。（チェック）</td>
</tr>
<tr>
<td></td>
<td>ブラックが倉っている。</td>
<td>ブラックを交換する。電池を新鮮に交換する。</td>
</tr>
<tr>
<td></td>
<td>燃料フィルターが詰まっている。</td>
<td>燃料フィルターの清掃、交換をする。エアクリーナー、マフラー内の汚れを清掃。</td>
</tr>
<tr>
<td></td>
<td>オーバーサーよ（チークのしつこさ）</td>
<td>オーバーサーを排気する。</td>
</tr>
<tr>
<td></td>
<td>キャラレーターの調整不足</td>
<td>サーボをニュートラル化してから、再びキャリレータをやり直す</td>
</tr>
<tr>
<td></td>
<td>サーボリングギタの調整不足</td>
<td>サーボをニュートラル化してから、再びキャリレータをやり直す</td>
</tr>
<tr>
<td>エンジンはかかるが すく止まる</td>
<td>燃料タンクに燃料を入れていない。</td>
<td>燃料タンクに燃料を入れる。</td>
</tr>
<tr>
<td></td>
<td>燃料チューブ、エアクリーナー、マフラー内の汚れ</td>
<td>汚れは、差している部分の掃除。</td>
</tr>
<tr>
<td></td>
<td>スロットルバルブの調整不足</td>
<td>スロットルバルブ及びアイドル、ニードルの調整。</td>
</tr>
<tr>
<td></td>
<td>エンジンのオーバーハート</td>
<td>エンジンが外れるのを待ってからニードルを2～3回開けて再スタート。</td>
</tr>
<tr>
<td>エンジンがうまく 吹き上がらない</td>
<td>スロットルバルブ、ニードルバルブの調整不足</td>
<td>ニードルバルブを元の推定位置に戻してから再スタート。</td>
</tr>
<tr>
<td></td>
<td>マフラーからのブレーキが低い場合</td>
<td>マフラーからブレーキが低い場合、チューブが問題を起こしているか？チューブが問題を起こしているか。</td>
</tr>
<tr>
<td></td>
<td>送信機、受信機のバッテリー不足</td>
<td>送信機及び受信機のバッテリーが足りない場合。送信機及び受信機のバッテリーが足りない場合。</td>
</tr>
<tr>
<td>車が思い通り動かない</td>
<td>電気の破損が悪いほど</td>
<td>送信機及び受信機のアンテナを完全に伸ばす。</td>
</tr>
<tr>
<td></td>
<td>サーボリングギタの調整不足</td>
<td>サーボをニュートラルにしてから調整し直す。</td>
</tr>
</tbody>
</table>
HPI NITRO STAR 12E PARTS

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1611</td>
<td>NITRO STAR 12E ENGINE</td>
<td>115.00</td>
</tr>
<tr>
<td>1667</td>
<td>COVER PLATE (FULL STARTER)</td>
<td>7.00</td>
</tr>
<tr>
<td>1662</td>
<td>SCREW SET (6PCS)</td>
<td>4.00</td>
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<tr>
<td>1664</td>
<td>BEARING FOR CRANK SHAFT (FRONT)</td>
<td>11.00</td>
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<tr>
<td>1665</td>
<td>BEARING FOR CRANK SHAFT (REAR)</td>
<td>11.00</td>
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<tr>
<td>1667</td>
<td>SCREW SET (2PCS) FOR CARBURETOR</td>
<td>2.00</td>
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<tr>
<td>1668</td>
<td>PULL STARTER ASSY (W/ONE WAY BEARING)</td>
<td>15.00</td>
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<tr>
<td>1669</td>
<td>ONE WAY BEARING</td>
<td>15.00</td>
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<tr>
<td>1670</td>
<td>STARTING SHAFT</td>
<td>5.50</td>
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<tr>
<td>1671</td>
<td>SCREW SET FOR PULL STARTER 4PCS</td>
<td>2.00</td>
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<tr>
<td>1675</td>
<td>ADJUSTMENT SCREW SET W/SPRING</td>
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<tr>
<td>1678</td>
<td>NEEDLE VALVE (COMPLETE)</td>
<td>16.00</td>
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<tr>
<td>1679</td>
<td>NEEDLE WITH O-RING</td>
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<td>1680</td>
<td>NEEDLE VALVE/HOLDER</td>
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<td>1681</td>
<td>SPRING FOR NEEDLE VALVE</td>
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<td>1682</td>
<td>CARBURETOR GASKET (4PCS.)</td>
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<td>1688</td>
<td>CRANK CASE FOR NITRO 15</td>
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<td>1691</td>
<td>CARBURETOR (MAIN BODY)</td>
<td>31.00</td>
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<td>1694</td>
<td>CARBURETOR (COMPLETE)</td>
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<tr>
<td>1697</td>
<td>THROTTLE ARM SET</td>
<td>3.00</td>
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<tr>
<td>1705</td>
<td>GLOW PLUG AND WASHER</td>
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<tr>
<td>1707</td>
<td>CYLINDER HEAD (DIECAST) FOR 12E</td>
<td>12.00</td>
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<tr>
<td>1708</td>
<td>CYLINDER (ABC) &amp; PISTON SET FOR 12E</td>
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<tr>
<td>1709</td>
<td>PISTON PIN FOR 12E</td>
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<tr>
<td>1710</td>
<td>CON ROD FOR 12E</td>
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<tr>
<td>1711</td>
<td>CRANK SHAFT FOR 12E (FULL STARTER)</td>
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<tr>
<td>1712</td>
<td>ROTOR SET FOR CARBURETOR FOR 12E</td>
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<tr>
<td>1713</td>
<td>GASKET SET FOR 12E</td>
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<tr>
<td>Part #</td>
<td>Qty</td>
<td>Name</td>
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<td>-------</td>
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</tr>
<tr>
<td>A001</td>
<td>1</td>
<td>GLOW PLUG WITH WASHER</td>
</tr>
<tr>
<td>A008</td>
<td>2</td>
<td>CLUTCH SHOE</td>
</tr>
<tr>
<td>A010</td>
<td>1</td>
<td>BRAKE DISK SET</td>
</tr>
<tr>
<td>A011</td>
<td>1</td>
<td>BODY PIN (MEDIUM) 6mm SILVER</td>
</tr>
<tr>
<td>A024</td>
<td>2</td>
<td>NYLON STRAP T7 x 250mm BLACK</td>
</tr>
<tr>
<td>A026</td>
<td>2</td>
<td>SHOCK MOUNT 3 x 30mm</td>
</tr>
<tr>
<td>A028</td>
<td>2</td>
<td>BLADE (.10 x 4mm)</td>
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<tr>
<td>A030</td>
<td>1</td>
<td>10mm SHOCK PARTS SET</td>
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<td>A031</td>
<td>5</td>
<td>SILICONE O-RING P3 RED</td>
</tr>
<tr>
<td>A033</td>
<td>1</td>
<td>SPRING 14.4mm WHITE</td>
</tr>
<tr>
<td>A034</td>
<td>2</td>
<td>SPRING 15 x 29 x 1.45mm YELLOW</td>
</tr>
<tr>
<td>A035</td>
<td>1</td>
<td>SPRING 15 x 29 x 1.55mm RED</td>
</tr>
<tr>
<td>A037</td>
<td>2</td>
<td>SPRING 12 x 20 x 1.65mm SILVER</td>
</tr>
<tr>
<td>A039</td>
<td>2</td>
<td>SPRING 12 x 20 x 1.65mm BLUE</td>
</tr>
<tr>
<td>A040</td>
<td>1</td>
<td>STEERING JET SET</td>
</tr>
<tr>
<td>A042</td>
<td>4</td>
<td>SHAFT 4.0 x 40mm SILVER</td>
</tr>
<tr>
<td>A043</td>
<td>6</td>
<td>SWAY BAR SET (NARROW RS4) [ALL RS4 PRO]</td>
</tr>
<tr>
<td>A046</td>
<td>1</td>
<td>STEEL HINCH PIN SET</td>
</tr>
<tr>
<td>A048</td>
<td>4</td>
<td>FLANGE SHAFT 3 x 35mm, 3 x 30mm BLACK</td>
</tr>
<tr>
<td>A053</td>
<td>1</td>
<td>PILOT SHAFT 4 x 15mm BLACK</td>
</tr>
<tr>
<td>A055</td>
<td>1</td>
<td>STEERING JET SET</td>
</tr>
<tr>
<td>A056</td>
<td>4</td>
<td>SHAFT 4.0 x 40mm SILVER</td>
</tr>
<tr>
<td>A072</td>
<td>6</td>
<td>METAL DUSHING 5 x 11 x 4.4mm</td>
</tr>
<tr>
<td>A078</td>
<td>6</td>
<td>METAL DUSHING 10 x 15 x 4.4mm</td>
</tr>
<tr>
<td>A215</td>
<td>14</td>
<td>BALL CUP</td>
</tr>
<tr>
<td>A216</td>
<td>14</td>
<td>BALL 4.0 x 40 BLACK</td>
</tr>
<tr>
<td>A700</td>
<td>1</td>
<td>SILICONE SHOCK OIL (#30) (30WT)</td>
</tr>
<tr>
<td>A803</td>
<td>1</td>
<td>CLUTCH WHEEL (GASSY, WITH PINS) ALUM.</td>
</tr>
</tbody>
</table>