Tools and Equipment

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. HPI Racing wants you to enjoy both building and driving your new race car. 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. You can also contact us on the internet at hpiracing.com.

Included inside:

- Z960 Tumbuckles Wrench ターナバックルレンチ
- Z950 Cross Wrench (Small) ミニクロスレンチ
- Z903 2.5mm Allen Wrench 六角レンチ
- Z901 1.5mm Allen Wrench 六角レンチ
- Z170 Shock Oil ショックオイル
- Z160 Grease グリス

Tools needed:

- #1 Philips Screwdriver ブラスドライバーワン
- #2 Philips Screwdriver ブラスドライバースモール
- Hobby Knife ホビナイフ
- Side Cutters ニッパー
- Glow Plug Wrench (8mm) グローブラグレンチ
- Needle Nose Plier ラリーペンチ
- Round Scissors ボディーカット用ハサミ
- Super Glue クイックタイヤセメント (瞬間接着剤)
- Rubber Cement ゴム系接着剤

Equipment needed:

- Glow Plug Igniter プラグイグナータ
- HPI 9067 Fuel Bottle フューエルボトル
- Glow Fuel グローフューエル
- On/Off Switch オンオフスイッチ
- Servo サーボ
- Battery Pack バッテリーパック
- Receiver 受信機

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

Glow fuel
Fade to无线电を進行させるためには、グロー燃料が必要です。多くのメカニックがショップで販売されていますので、適当な燃料をお問い合わせください。また、エンジンを動かすためにプラグヒーターが必要です。

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

プロポシステム（無線装置）
ナイトDR4を進行させるためには、2チャンネル2サーボのプロポシステムが必要です。上記のプラグを挿入後後部受信用バッテリーパック及び、オンオフスイッチ等が必要です。

Make sure the servo size is as shown.
ステアリングサーボは下記の寸法を参考に作って下さい。

46-51mm
Observe These Cautions!

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. These models can exceed speeds of 31 mph (50km/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 ENGINED R/C MODEL OPERATING PROCEDURES**

Follow these 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, trim, 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 that it's 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 vehicle, 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, belts, 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 and 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 fuels:
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.
Open Bag B

B022  Ball Bearing 5 x 11 x 4mm  x 2

Z567  TP. Binder H. Screw M3 x 10mm  x 1

Z57B  TP. Flat H. Screw M3 x 12mm  x 4

A534  Pulley Shaft 5 x 70mm  x 1

A547  Belt 53M 162 (B47)  x 1

B022  Ball Bearing 5 x 11 x 4mm  x 2

Z244  E-Clip E4 (Black)  x 2

Z264  Pin 2 x 10mm (Silver)  x 2

A470  Small Size Belt  x 1

Attach belt to both pulleys before screwing assembly to chassie.
*ベルトをブーリーに掛けてからユニットをシャシーに取り付けて下さい。
Note direction of arms!

* 注意臂的朝向！
14

- A552 Dog Bone 6 x 60 mm (Black) x 2
- 6819 O-Ring F3 (Red) x 4
- B030 Ball Bearing 10 x 15 x 4 mm x 2

Note direction of Diff!

15

- Z136 Ball 4-40 (Black) x 2
- Z867 Thr. Binder H. Screw M3 x 10 mm x 2
- Z878 Thr. Flat Head Screw M3 x 12 mm x 2

A340 A471 A391 Z136 Z567 Z578
4x
(Build four)

4本のショックを作ります。

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

Use masking tape to protect shock shafts.
4枚を塗るとシャフトを保護します。

Screw the ball cup all of the way onto the shock shaft.
ネジを締めます。(ねじを締める)

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て空気を抜いてください。

4x
(Build four)
**OPEN BAG D**

- A813 Glutch Bell 1ST x 1
- A860a Air Cleaner Boot x 1
- A860b Air Cleaner Sponge x 1
- B046 Glutch Needle Bearing M5x8mm x 1
- Z517 Binder Head Screw M3x8mm x 1
- Z694 Washer M5 x 10 x 0.5mm x 2

**IMPORTANT!!! 重要!!**

Maintenance for the air filter as follows:
1. Wash with fuel
2. Squeeze fuel and dirt out
3. Apply light coat of air filter oil
4. Insert back into air filter boot

The air filter needs maintenance. Even after cleaning the filter, oil is still left inside. After cleaning, wipe it down with a cloth and apply a light coat of oil.

Apply a light coat of #Z660 grease where you see this tube.

Submit craftsman.”
20

- A877a: Manifold A (マニホールド A) x 1
- A877b: Manifold B (マニホールド B) x 1
- A877c: Gasket 10 x 1.5mm (ガスケット) x 1
- A877d: Flanged Screw M3 x 45mm (フランジネジ) x 1
- A877a: Side Muffler A (サイドマフラーア) x 1
- A877b: Side Muffler B (サイドマフラービ) x 1
- A877e: Butt. Head Screw M3x80mm (ナベネ) x 1

21

- A876d: Silicone O-Ring P30 (シリコンのリング) x 1
- Z224: Washer M3 x 8mm (Black) (ワッシャー) x 1
- Z653: Nut M3 (ナット M3) x 1
- Z654: Nylon Strap 3.5 x 150mm (ナイロンストラップ) x 2
- A878c: Muffler Insert (マフラーアインサート) x 1
- A875: Exhaust Gasket (EXガスケット) x 1

22

- A848: Silicone Tube 12 x 18 x 30mm (シリコンチューブ) x 1
- Z509: Butt. Head Screw M5x30mm (アベネ) x 2
- Z526: Flat Head Screw M3 x 8mm (サナネ) x 4
- Z569: TP. Binder H. Screw M3 x 15mm (バイナドタッピングネジ) x 1
- Z578: TP. Flat Head Screw M3 x 12 (サナナピンジ) x 1

IMPORTANT!!! 重要!!

- Make sure the servo is in neutral prior to installation.

- Make sure the servo size is as shown.

Use removable thread lock here.
23

Z125
Ball Cup
ボールキャップ
x 2

Z136
Ball-440 (Black)
ボール (黒)
x 1

A185b
Threaded Rod 4-40 x 34mm
スタッド
x 1

Approximately
約
48mm

Note direction!
・向きに注意！

24

Throttle Servo
スロットルサーボ

Steering Servo
ステアリングサーボ

Make sure the servo size is as shown.
下記の寸法の時使用します。

More than
28mm.
28mm以上

A482

25

Receiver Switch
(Included with Transmitter)
受信機スイッチ
ON should be in front!
スイッチはON側を前にして下さい。

Receiver
受信機

Switch Plug
スイッチコネクター

6163

HPI Racing
A WEB SITE FOR THE SERIOUS RACER

HPI
ς
Wrap receiver pack wires around nylon strap for safety.

Hold using nylon strap.

Receiver battery pack.

Hold for antenna wire.

Z567
TP. Binder H. Screw M3 x 10mm x 3
バイドン ダッキング ネジ

Z569
TP. Binder H. Screw M3 x 15mm x 1
バイドン ダッキング ネジ

Z569
TP. Binder H. Screw M3 x 15mm x 4
バイドン ダッキング ネジ

Z567
TP. Flat H. Screw M3 x 12mm x 2
サラダッキングネジ

6154 Nylon Strap
Attach fuel lines to carb and muffler as shown below.

From bottom of fuel tank.

70mm (for exhaust to fuel tank return) フューエルタンクに接続します。

150mm (for fuel tank to carb) タンクからキャビネットへの接続です。

Make sure the servo is in neutral prior to installation.

締付トルクにした状態で組み立てます。

Use removable thread lock here.

A WEB SITE FOR THE SERIOUS RACER
4x (Build four)

1. Check pattern of treads.

2. Apply super glue to tire where it touches wheel.

3. Insert foam into tire.

4. Rubber Cement

Insertion instructions:

1. Insert foam into tire.

2. Rubber Cement

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2. Rubber Cement

Insertion instructions:
33. Use a 200mm Body. 200MM幅ボディー使用してください。

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

Install body pins under body at desired height.
Install body and secure with body pins.

See "Painting Tips" sheet for complete painting instructions.
OPTIONAL SETUP

Using Turnbuckles.

Z125 Ball Cup

6x (Build Six)

Z950

Z960

Z125

Change

UPRIGHT SET

STOCK 10°

A461  R 10
A461  L 10

OPTIONAL 8°

A461  R 8
A461  L 8

Normal Steering

Quick Steering

A WEB SITE FOR THE SERIOUS RACER
**SETTING NEUTRAL**

**WITH ENGINE OFF:**
1. Turn on transmitter.
2. Turn on receiver.
3. Center throttle trim.
4. Adjust \( A \) so there is a 1 mm carb opening.
5. Adjust \( B \) so carburetor never closes more than 1 mm.
6. Adjust \( C \) so brake does not drag at neutral. You should be able to push the car about 5 feet. If the brake drags at neutral you will melt the clutch.

\[ \text{No brake drag at neutral.} \]

**SETTING FULL THROTTLE**

**WITH ENGINE OFF:**
1. Full full throttle.
2. Make sure carburetor is open.

**FULL THROTTLE POSITION.**

**SETTING FULL BRAKE**

**WITH ENGINE OFF:**
1. Push trigger to full brake position.
2. Make sure brake works.

**FULL BRAKE POSITION.**
Starting For The First Time.

TURN ON RADIO.
1. Switch on transmitter.
2. Switch on receiver.
3. Make sure servos function properly.
4. Check the range of radio by walking away from car.

NOTE:
Never use fuel near a heat source or near an open flame!

Fueling:
1. Fill tank with high quality R/C car glow fuel.
2. Close cap securely after filling.

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

Priming Carb:
1. Push fuel primer button until fuel reaches throttle inlet.
2. Press button two more times to allow fuel to enter throttle valve.

Starting Engine:
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:
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. Wipe any fuel spills immediately.

NOTE:
Be careful of fuel spraying out of the cylinder!

Stopping Engine:
1. Run until fuel is depleted.

NOTE:
Be careful when stopping engine! Do not touch engine, or muffler, they may be very hot.

We recommend driving the car until the tank is empty.

Here are two other ways to stop the engine:
1. Cover air cleaner intake with your finger.
2. Stop fuel supply by pinching the fuel lines.

Engine stopping helps.
1. Air cleaner to outer.

NOTE:
*Engine stopping helps. After stopping, remove fuel, muffler, they may be very hot.
ENGINE BREAK-IN AND TUNING

BREAK-IN THE NEW ENGINE BEFORE DRIVING THE CAR

Perform the following static break-in to prevent damage to your new engine.
1. 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.
2. Fill fuel tank and start engine (see page 23).
3. Let engine idle until it runs out of fuel. When the engine stops, allow it to cool then repeat step #2 one more time.
4. 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 the process for 3 to 4 tanks, allowing engine to cool down before refueling.

The engine should always emit blue smoke, even at full throttle. If there is no smoke, the engine is too lean, and could easily be damaged. During break-in, it is normal for fuel to spout out of the exhaust pipe.

(A) Needle valve starting position:
Turn clockwise until it stops (closed).
Turn counterclockwise 3 turns (open).

(B) Low top end, slow response:
Turn 2 clicks clockwise (closed). Continue 2 clicks at a time until response is sharp and speeds are higher.

(C) Rough at full throttle:
Turn 1/4 counterclockwise (open). Continue 1/4 turn at a time until full throttle is smooth and responsive.

(D) Adjusting idle:
Turning clockwise increases idle RPM. Counterclockwise decreases RPM.

Idle adjuster screw.
アイドリング調整ネジ

Adjust so idle does not slow down when brakes are applied. Use removable thread lock to prevent screw from vibrating out.

TUNING AFTER BREAK-IN.

1. Set needle valve to starting position (A).
2. Fill fuel tank and start engine (see page 23).
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.

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

aniu

HPI RACING

25
## Troubleshooting Guide

<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 for defects.</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 to 2-1/2 turn out.</td>
</tr>
<tr>
<td></td>
<td>Engine is overheated.</td>
<td>Allow engine to thoroughly cool down and open needle valve 2 to 3 clicks.</td>
</tr>
<tr>
<td>BAD REACTION AND RESPONSE FROM ENGINE.</td>
<td>Throttle valve not adjusted properly.</td>
<td>Re-adjust needle valve to 2-1/2 turn out.</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>
<tr>
<td>MELTED CLUTCH SHOE.</td>
<td>Brake is dragging during running.</td>
<td>Set brake so car rolls freely at neutral throttle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>エンジンがかからない</th>
<th>燃料タンクに燃料を入れ、エンジンまで燃料を送る。（チェック）</th>
</tr>
</thead>
<tbody>
<tr>
<td>エンジンがかからない</td>
<td>燃料が入っていない。燃料がエンジンまで来ていない。</td>
</tr>
<tr>
<td></td>
<td>ブラックを切っている。燃料を不足している。</td>
</tr>
<tr>
<td>エンジンがかからない</td>
<td>エンジンのオーバーヒート</td>
</tr>
<tr>
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<td>エンジンのオーバーヒート</td>
</tr>
<tr>
<td>エンジンがかからない</td>
<td>エンジンが冷え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>スロットルバルブの調整不良</td>
</tr>
<tr>
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**HPI Racing**

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**A WEB SITE OF THE SEPTEMBER**

---

**HPK**

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**28**
## PARTS LIST

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<thead>
<tr>
<th>Part #</th>
<th>QTY</th>
<th>Name</th>
<th>Retail Price</th>
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<td>NITRO STAR 15 BE ENGINE</td>
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<td>1705</td>
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<td>GLOW PLUG</td>
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<td>3498</td>
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<td>SUPER STAR WHEEL 26mm GRAY</td>
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<td>MESH WHEEL 26mm GRAY</td>
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<td>SUPER RADIAL TIRES (STANDARD WIDTH)</td>
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<td>6122</td>
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<td>BODY PIN (M)</td>
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<td>NYLON TAPE 26x10mm (5pcs)</td>
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<td>6228</td>
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<td>NYLON REUSABLE BATTERY TAPR</td>
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<td>BODY POST (4-40 or 5-32mm)</td>
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<td>SHOCK SHAFT 3x31mm</td>
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<td>BLADDER 10x10mm</td>
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<td>SILICONE O-RING P-3 (RED)</td>
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### Sets

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### Option Parts

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<td>1800</td>
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<td>NITRO STAR PRO 12E 5C (Use with A663A663 or A915)</td>
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