Specifications

Overall Length (with Canopy): 690 mm
Main Rotation Diameter: 738 ~ 808 mm
Main blade length: 315 ~ 360 mm
Overall Height: 230 mm
Overall Width: 190 mm
Tail Blade Length: 62 mm
Tail Rotation Diameter: 164 mm
Flight duration: 3~4 minutes (3D flight)

Power system (recommended):
ESC: Minimum 40A ESC
LiPo battery (max size: 34 x 34 x 110mm):
3S 11.1V 2000-2300mAh (3400~4000kV BL motor)
6S 22.2V 1000~1400mAh (1300~1800kV BL motor)
Total weight: 465g ±3% (kit with canopy, w/o all electronics, blades and batteries.)

We recommend downloading and using the latest manual from Official GAUI website's download area.

This product is for a radio controlled (RC) helicopter. Improper operation, maintenance or assembly can potentially cause a RC helicopter to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death.

 GAUI JAPAN オフィシャルウェブサイトよりダウンロード可能です。
本製品はラジオコントロールヘリコプターです。不適切な操作やメンテナンス、組み立てにより自己だけでなく周りを巻き込む重大な事故、怪我、死亡などを引き起こす可能性があります。
### Motor assembly
- モーター アッセンブリ

### Tail case assembly
- テールケース アッセンブリ

### Tail boom assembly
- テールブーム アッセンブリ

### Support rods assembly
- サポートロッド アッセンブリ

### Tail push rod assembly
- テールプッシュロッド アッセンブリ

### Electronics installation
- エレクトロニクスインストレーション

### Mini Servo Installation
- ミニサーボインストレーション

#### Tools
- 1.5mm Hexagon screwdriver
- 2.0mm Hexagon screwdriver
- Phillips screwdriver
- Needle-nosed pliers
- Diagonal cutting plier
- Ball Link Plier
- Scissors
- High Strength Tape
- FBL system
- Transmitter & Receiver
- CCPM Mini servo x 3pcs
- Tail Specialized Servo x 1pc
- AB glue
- one-way bearing grease
- Battery size specifications: 110x34x34mm (3S & 6S)

#### Code
- #000000

#### Spare part number
- #216000

#### Geometric dimensions
Thank you for purchasing GAUI RC Helicopter from Tai Shih Hobby Corporation (TSH). We hope you will enjoy the joy of flight.

In order to understand full assembly sequences, this instruction manual show the assembly information of this model, even though some elements might be supplied as pre-assembled. Please refer to manual whenever carrying out maintenance or replacing parts.

CAUTION: This radio controlled RC Helicopter is not a toy.

This kit includes some pre-assembled components. Please check for any loose screws and tighten them before you proceed with assembly.

You are responsible for assembly, safe operation, maintenance, inspection and adjustment of the model.

Before beginning assembly, please read these instructions thoroughly. Check all parts. If you find any defective or missing parts, contact your local dealer or TSH distributor.

Before you proceed to RC Helicopter activity, please check and follow thoroughly related regulation of aero modeling in your country/region.

Disclaimer

This product is for a radio controlled (RC) Helicopter. Improper operation, maintenance or assembly can potentially cause a RC Helicopter to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death.

Moving components can present a hazard to operators, and anyone or anything that could be in the flying area of the RC Helicopter.

Under no circumstance should a minor be allowed to operate this RC Helicopter without the approval, monitor and direction of his parent or legal guardian who takes full responsibility for all of the minor's actions.

This product is intended for being operated by experienced mature RC Helicopter pilots under controlled safety conditions and on locations properly authorized and setup for safe flying and away from other people.

Do not operate an RC Helicopter within the vicinity of residences, trees, electrical power lines during inclement weather or near crowds of people.

The manufacturer and/or its distributors assume no responsibility or liability whatsoever for any damages including but not limited to ones generated by incidental or consequential damages.

The operator of the RC Helicopter assumes all responsibility and liability that result from the correct or incorrect operation of the RC Helicopter.

リモコンヘリコプターはおもちやではありません。

安全上のご注意

このキットは複数の組み立てで組み立てた製品が入っています。組み立ての前にネジの緩みを確認して締め付けてください。

ユーザーは組み立て、安全なオペレーション、メンテナンスを、調整を行う責任があります。

組み立てを開始する前にこれらの指示を十分に理解してください。

不良または不足している部品が全ての部品を確認してください。もし、不良品、不足品があった場合はGAUI JAPANディーラー、購入店へお問い合わせ下さい。

組み立てを開始する前に、徹底的にこれらの指示をお読みください。

RCヘリコプターの飛行の前に、法令や飛行場のルールを徹底的にチェックして下さい。

免责事項

この製品はラジオコントロールヘリコプターです。誤った製品の取り扱い、メンテナンス、組み立てを行うと重大な事故につながります。更には他の人間や物を破壊、重大な事故、更には死亡させる可能性があります。存在する可能性は数多く考えられます。

飛行場所においてはRCヘリコプターの飛行領域で行うでください。未成年者が飛行をする際は親権者の了解の元で飛行を行い、飛行時には十分な監視を行ってください。

この製品は、RCヘリコプターに熟練された方の使用を前提に設計されています。飛行の際は周りの安全を十分に確認し、公共のスペース、住宅、木、電線の近く、悪天候時は飛行をしないでください。

製造業者およびディストリビューター/販売店はいずれについても一切の責任や、一切の義務を負いません。

RCヘリコプターの操作者は全ての責任と義務を負う必要があります。正確な操縦、誤った操作など全てを含みます。
The Academy of Model Aeronautics (AMA) is a national organization representing modelers in the United States. Please refer to the National Model Aircraft safety code from AMA Member Manual for details: http://www.modelaircraft.org/files/memanual.pdf

Partially reprinted rules that are especially pertinent for Radio Controlled flight:

RADIO CONTROL
1. All pilots shall avoid flying models over unprotected people.
2. I will complete a successful radio equipment ground-range check in accordance with the manufacturer’s recommendations before the first flight of a new or repaired aircraft.
3. At all flying sites a safety line or lines must be established, in front of which all flying takes place. Only personnel associated with flying the model aircraft are allowed at or in front of the safety line. In the case of air shows or demonstrations a straight safety line must be established.
   An area away from the safety line must be maintained for spectators. Intentional flying behind the safety line is prohibited (see AMA Document #706 for Recommended Field Layout).
4. I will operate my model aircraft using only radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.
5. I will not knowingly operate my model aircraft within three (3) miles of any pre-existing flying site without a frequency-management agreement. (See AMA Document #922 for Testing for RF Interference. See AMA Document #923 for Frequency Management Agreement.)
6. With the exception of events flown under official AMA Competition Regulations rules, excluding takeoff and landing, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilot and the Pilot’s helper(s) located at the flight line.
7. Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual. This does not apply to model aircraft flown indoors.
8. Radio-controlled night flying requires a lighting system that provides the pilot with a clear view of the model’s attitude and orientation at all times.
9. The operator of a radio-controlled model aircraft shall control it during the entire flight, maintaining visual contact without enhancement other than by corrective lenses that are prescribed for the pilot. First-Person View (FPV) flying may only be conducted in accordance with the procedures outlined in AMA Document #550.

These special codes and appropriate documents may be obtained either from the AMA Web site at www.modelaircraft.org or by contacting AMA.

Academy of Model Aeronautics 5161 East Memorial Drive Muncie, IN 47302
Tel.: (765) 287-1256
Fax: (765) 289-4248
Main shaft mounts assembly

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Quantity</th>
<th>Item Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main shaft mounts assembly</td>
<td>1</td>
<td>#216127</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2</td>
<td>#216125</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>2</td>
<td>#803733</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>2</td>
<td>#216135</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>3</td>
<td>#805111</td>
</tr>
</tbody>
</table>

M2x5 x2 pcs Ø2x5 x3 pcs
Main shaft mounts assembly

Recommended ball head screw installation distance.

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Qty.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#821608</td>
<td>6</td>
<td>Ø2x8 x6 pcs</td>
</tr>
<tr>
<td>#821605</td>
<td>4</td>
<td>Ø2x5 x4 pcs</td>
</tr>
<tr>
<td>#884001</td>
<td>3</td>
<td>N2x4 x3 pcs</td>
</tr>
</tbody>
</table>

P.2 メインシャフトマウントアッセンブリ Main shaft mounts assembly
Frame assembly

#821608

Ø2x8  x6 pcs

1 #216252
Remove the battery slider plate and assemble back with instruction on P.26.
バッテリースライダーブレート、組み立てP.26

3

#821605
Ø2x5 x5 pcs

1 #216139 2 #216133
Frame assembly

#821608

Ø2x8  x3 pcs

1 #216129

P.5
Confirm assembled frame is 90° degree to level surface (not twisted)

フレーム90° になるよう組み立てる(揺れないよう)

<table>
<thead>
<tr>
<th>#821605</th>
<th>#821608</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø2x5</td>
<td>x5 pcs</td>
</tr>
<tr>
<td>Ø2x8</td>
<td>x9 pcs</td>
</tr>
</tbody>
</table>

P.6  フレームアッセンブリ Frame assembly
Frame assembly

#821608
Ø2x8 x2 pcs

Ø2x8

1 #216147
Insert Ø2x8 and M2x12 screws thru the side frames and boom clamp but do not tighten yet, wait until step in P.22 where the boom is installed and adjusted before tightening these screws.

Ø2x8とM2x12スクリューをサイドフレームを通してブームクランプへねじ込みます。締めすぎないでください。P.22ブームインストールページで締め付け、調整を行います。
Adjust with different washers and double check smooth operation of the main gear assembly.

Counter threaded (you should assemble the two part from the usual opposite direction).

*Important: Use CLEANING NAPHTHA or Alcohol to remove the protective oil from the One Way Sleeve & Hub BEFORE assembly. Customer should take great care in assembling the two parts together and not forcefully (it will damage the threads making the part unusable).

When handled with care, the two parts should be able to be assembled together just by hand, no tool needed at the beginning.

Use tool to do the final tightening when the hub is all the way to the bottom.

Notice ample anaerobic glue should be used on both the Hub and the One Way Sleeve, excess glue wiped off after sitting for 1 hour.

The assembled part needs at least 24 hours to dry and cure before use.

---

4 M2x4 ワッシャー W10.2x13.5x0.1

5

1 M2x4

6

3

2

1

3

4

5

6

#842004 M2x4 x4 pcs #832240 M2x4 x4 pcs

1 #216351 2 #216182 3 #216114 4 #216338 5 #216111 6 #216181

Important notes:

- Use CLEANING NAPHTHA or Alcohol to remove the protective oil from the One Way Sleeve & Hub BEFORE assembly.
- Handle the parts carefully to avoid damaging the threads.
- Use ample anaerobic glue and wipe off excess after sitting for 1 hour.
- The assembled part needs at least 24 hours to dry and cure before use.

---

Main gear assembly メインギアアッセンブリー P.9
See P.22 installation of tail boom, adjust with washer(s), lift up the main gear/shaft /rotor head assembly to adjust, confirm proper mesh between crown gear and tail transmission gear.

P.22 を参照し、ローターヘッドアセンブリとギア/シャフトの隙間を調整します。合わせてクラウンギアとテールトランスミッションギアも調整します。
Make sure M2.6x6 screw is secured with glue and tightened with moderate/proper force. Do not over-tighten screw and strip it or it may become a flight safety risk.

<table>
<thead>
<tr>
<th>#842034</th>
<th>#842008</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2.6x6</td>
<td>M2x8</td>
</tr>
<tr>
<td>x2 pcs</td>
<td>x1 pcs</td>
</tr>
</tbody>
</table>

Bigger inner race 内径大
Smaller inner race 内径小

Main rotor grip assembly メインローターグリップアッセンブリ
<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2x3.2</td>
<td>4 pcs</td>
<td>Short ball head screw</td>
</tr>
<tr>
<td>Ø2x3.5</td>
<td>3 pcs</td>
<td>Long ball head screw</td>
</tr>
</tbody>
</table>

Main rotor head assembly

Main rotor head assembly
Very important to tighten M2.6x12 screw.
必ずキツく締めることM2.6x12

<table>
<thead>
<tr>
<th>#842010</th>
<th>#842024</th>
<th>#884003</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2x10</td>
<td>M2.6x12</td>
<td>N2.5x5</td>
</tr>
<tr>
<td>x4 pcs</td>
<td>x1 pcs</td>
<td>x1 pcs</td>
</tr>
</tbody>
</table>

Main Rotor Head Assembly メインローターヘッドアッセンブリ P.13
Different ball head installation on grip lever affects flight response, adjust position according to pilot own preference. However the same position must be selected for both grip levers.

穴位置を変更することでレバー比が変更できます。これによりフライトレスポンスが変わります。ご自分のフライトスタイルに合わせて変更してください。両側のグリップとも必ず同じ位置に配置します。

13.7 mm
13.6 mm
13.7 mm

Main rotor head assembly
1. Assemble the 3 CCPM ball links and clip onto place.
1. CCPMボールリンクを3組作成し、イラストの様に配置します。
Use Hex wrench from the tools pack to tighten M2x10 screw.

ツールバック内のHEXレンチを使用しM2x10を締め込みます。
One can use a small strip of paper to adjust the pinion / main gear mesh to be around 0.1mm.

When installing the pinion confirm the position of pinion / main gear as pictured below.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>#842004</td>
<td>#842018</td>
<td>#842029</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M2x4</td>
<td>M3x5</td>
<td>M3x3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4×4 pcs</td>
<td>2×2 pcs</td>
<td>2×2 pcs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Motor assembly
Use Hex wrench from the tools pack to tighten M2x2 screw.

ツールバックのレンチを使用しM2x2を締め込みます

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
<th>Part</th>
<th>Quantity</th>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>#842004</td>
<td>M2x4</td>
<td>x2 pcs</td>
<td>#835502</td>
<td>M2x2</td>
<td>x1 pcs</td>
</tr>
<tr>
<td>#832232</td>
<td>M2x3.2</td>
<td>x2 pcs</td>
<td>#805112</td>
<td>M2x4</td>
<td>x2 pcs</td>
</tr>
<tr>
<td>#216186</td>
<td>M2x3.2</td>
<td>x2 pcs</td>
<td>#216185</td>
<td>M2x4</td>
<td>x2 pcs</td>
</tr>
</tbody>
</table>

P.18 テールケースアッセンブリ Tail case assembly
Make sure M2x5 screw is secured with glue and tightened with moderate/proper force. Do not over-tighten screw and strip it or it may become a flight safety risk.

Tighten properly M2x8 screws M2x8過度に締め込みます

<table>
<thead>
<tr>
<th>1</th>
<th>#216117</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>#216341</td>
</tr>
<tr>
<td>3</td>
<td>#805107</td>
</tr>
<tr>
<td>4</td>
<td>#216339</td>
</tr>
<tr>
<td>5</td>
<td>#805103</td>
</tr>
<tr>
<td>6</td>
<td>#216115</td>
</tr>
<tr>
<td>7</td>
<td>#805113</td>
</tr>
</tbody>
</table>

Bigger inner race Smaller inner race

<table>
<thead>
<tr>
<th>#842005</th>
<th>#842008</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2x5</td>
<td>x2 pcs</td>
</tr>
<tr>
<td></td>
<td>M2x8</td>
</tr>
</tbody>
</table>

Tail case assembly

P.19
Tighten properly M2x8 screws

Notch to tighten M3x3 screw

穴位置凹みを合わせて固定
Notch to tighten M3x3 screw

<table>
<thead>
<tr>
<th></th>
<th>#842008</th>
<th>#842029</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>M2x8</td>
<td>M3x3</td>
</tr>
<tr>
<td></td>
<td>x2 pcs</td>
<td>x1 pcs</td>
</tr>
<tr>
<td>15</td>
<td>#842014</td>
<td>#216143</td>
</tr>
<tr>
<td></td>
<td>M2x14</td>
<td>M2.6x3.7</td>
</tr>
<tr>
<td></td>
<td>x1 pcs</td>
<td>x2 pcs</td>
</tr>
</tbody>
</table>

#216341  #805107  #883552  #216143
1. Use the green anaerobic Loctite on both the torque tube and adapter end before assembly.
   Same with the bearing and torque tube, use green anaerobic Loctite to secure. 24 hours cure time needed.
2. Prior to installing the torque tube inside the boom, you can put some lubricants on the O-rings to decrease friction against the wall of the tail boom.

---

Adjust position of collar so it won't interfere with the screw securing the Tail Gear Case / tail Boom.

Insert Retainer collars on both ends of the TT/adapter end then secure with the 2pc set screws (use loctite glue on the screws).

リテーナカラーを両端に挿入しシャフトとカラーを抑えるように締めます。 (ネジロック剤を使用)

---

1. Use the green anaerobic Loctite on both the torque tube and adapter end before assembly.
   Same with the bearing and torque tube, use green anaerobic Loctite to secure. 24 hours cure time needed.
2. Prior to installing the torque tube inside the boom, you can put some lubricants on the O-rings to decrease friction against the wall of the tail boom.

---

1. Use the green anaerobic Loctite on both the torque tube and adapter end before assembly.
   Same with the bearing and torque tube, use green anaerobic Loctite to secure. 24 hours cure time needed.
2. Prior to installing the torque tube inside the boom, you can put some lubricants on the O-rings to decrease friction against the wall of the tail boom.
Coordinate with P.8 about installation of tail boom and tightening Ø2x8 and M2x12 locking screw.
P.8で締め付けを行っていなかったネジをテールブーム挿入後締め付けます Ø2x8 と M2x12

Use adjustment washers to avoid screw interfering with the torque tube collar.
トルクチューブカラーとの干渉を防ぐためワッシャーを使用します。

<table>
<thead>
<tr>
<th>17</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>#821605</td>
<td>#821614</td>
</tr>
<tr>
<td>Ø2x5</td>
<td>Ø2x14</td>
</tr>
<tr>
<td>#842009</td>
<td>#216208</td>
</tr>
<tr>
<td>M2x10</td>
<td>W2x5x0.5</td>
</tr>
</tbody>
</table>

1 | #216210 |
2 | #216131 |
3 | #216254 |
4 | #216161 |
Use AB glue to glue together the support ends and tail support rod.

ABグルー(エボキシなど)を添付しサポートエンドをサポートロッドを取り付け

<table>
<thead>
<tr>
<th>#821605</th>
<th>#821608</th>
<th>#821614</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø2x5</td>
<td>x2 pcs</td>
<td>Ø2x8</td>
</tr>
</tbody>
</table>

![Support rods assembly](image)

1 #216211  2 #216254
Cut excess servo horn

16 17

<table>
<thead>
<tr>
<th></th>
<th>#842008</th>
<th>#842018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M2x8 x2 pcs</td>
<td>M3x5 x4 pcs</td>
</tr>
<tr>
<td></td>
<td>#842005</td>
<td>#884001</td>
</tr>
<tr>
<td></td>
<td>M2x5 x2 pcs</td>
<td>N2x4 x1 pcs</td>
</tr>
</tbody>
</table>

1 #216150
2 #216210
3 #803735
After installation of the tail push rod, double check all the parts are leveled as depicted above.

テールプッシュロッド取り付け後マーキングされた部品が水平、直角であることを確認します。
Use high strength tapes to secure battery to the battery slider plate.

<table>
<thead>
<tr>
<th>#842035</th>
<th>#810003</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3x19</td>
<td>N3x5.5L</td>
</tr>
<tr>
<td>2 pcs</td>
<td>2 pcs</td>
</tr>
</tbody>
</table>

Use high strength tapes to secure battery to the battery slider plate.

バッテリーライダープレートを高強度テープやマジックテープなどで固定します。
Insert the battery slider plate into the battery mount, make sure it is inserted all the way and clips (secured) into place.

バッテリーマウントにスライダープレートを挿入し、全方向のクリップがしっかり固定されているか確認します。