It is designed for maximum performance. Please seek advice if one is not familiar with this kind of electric powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.

Warning! This model is not a toy.

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of electric powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.

* Specifications are subject to change without notice.*
BEFORE YOU BEGIN

1. Read through the manual before you begin, so you will have an overall idea of what to do.

2. Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts, but will not extend to the parts that are good before gluing to defective parts during assembly. Warranty will not cover any parts modified by customer. For pre-assembled kits, please check proper functions of all servos on the ground before flying. Servo gears could be damaged when control surfaces are hit during transportation of models. The manufacturer will replace any servos due to manufacturer’s defect, but will not cover plane crashes due to damaged servos not detected before flying.

3. Symbols used throughout this instruction manual comprise of the following :-

- **Apply epoxy glue.**
- **Apply instant glue (C.A.glue, super glue.)**
- **Apply thread locker**
- **Must be purchased separately !**
- **Assemble left and right sides the same way.**
- **Ensure smooth non-binding movement while assembling.**
- **Peel off shaded portion covering film.**
- **Cut off shaded portion.**
- **Drill holes with the specified diameter (here: 3mm).**
- **Pierce the shaded portion covering film.**
- **Pay close attention here!**
- **Warning!** Do not overlook this symbol!
Parts List

1. MAIN WING -- 1 pair
   SCREW PA1.7x8mm -- 8 pcs
   SERVO MOUNTING PANEL PL5310020 -- 1 pair
   PLASTIC BRACKET 2x36.5x36.5mm -- 2 pcs
   STRAPER PL4112106 -- 2 pcs
   CLEVIS PL4112105 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   HORN PL4113103 -- 2 pcs
   PUSHROD Ø1.4x102mm w/ Threads (For Aileron) -- 2 pcs
   FIBRE TAPE 17x200mm -- 2 pcs

2. VERTICAL FIN & RUDDER -- 1 set
   FUSELAGE -- 1 pc.

3. PUSHROD Ø1.4x558mm w/Threads (For Aileron) -- 1 pc.
   CLEVIS PL4112105 -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 1 pc.
   HORN PL4113103 -- 1 pc.

4. SCREW PM2.5x8mm -- 4 pcs
   WASHER d3xD7mm -- 4 pcs
   DUCTED FAN COVER -- 1 pc.

5. FRONT WING -- 1 pair
   TAIL WING -- 1 pair
   MISSILE -- 2 pcs
   CARBON FIBER TUBE Ø4x360mm -- 1 pc.
   MAIN LANDING GEAR Ø2.5x77mm -- 1 pair
   LANDING WIRE STRAPS PL4114030 -- 4 pcs
   MAIN WHEEL Ø40mm PL3320041 -- 2 pcs
   COLLAR Ø2.6mm w/ Set Screw -- 2 sets
   SCREW PA2.3x8mm -- 8 pcs

6. FUEL TUBE d2xD4x4mm -- 1 pc.
   STRAPER PL4112106 -- 1 pc.
   FRONT LANDING GEAR Ø1.8x134mm -- 1 set
   FRONT WHEEL Ø23mm -- 1 pc.
   COLLAR Ø2.1mm w/ Set Screw -- 2 sets
   STEERING ARM PL4112215 -- 1 set
   PUSHROD Ø1.2x106mm (For Front Wheel) -- 1 pc.
   LINKAGE CONNECTOR 2.1mm HW7111050 -- 1 set
   BATTERY TIE 160mm -- 1 pc.

7. SPONGE 10x50x150mm (For Radio Equipment & Battery) -- 2 pcs
   DOUBLE-SIDED TAPE 30x35mm -- 1 pc.

8. CANOPY -- 1 pc.
   PILOT PC001042A -- 1 pc.
   BATTERY COVER -- 1 pc.
   REFUEL TUBE -- 1 pc.

9. DECALS GM034S1DEC -- 1 set
1. Aileron Servo

PA1.7x8mm Screw (x8)

Aileron Servo Lead

Plastic Bracket 2x36.5x36.5

17x200mm Fibre Tape

Fibre Tape Bottom

Fuel Tube d2xD4x4mm

Clevis

Horn

Pushrod Ø1.4x102mm

Strap

Fuel Tube d2xD4x4mm

PA1.7x8mm

**Please choose either (02L & 02R) or (03L & 03R) or (04L & 04R) that suits your servo.**
2. Vertical Fin / Rudder

3. Rudder Pushrod
4 Ducted Fan Propulsion Unit with 28/31 Motor

Make sure rotating motor casing is not in contact with wirings or anything.

1. PM2.5x8mm Screw (4)
2. d3xD7mm Washer (4)

Make sure TWM logo on ducted fan stay on bottom of fusealge.
5 Main Wing & Front Wing & Main Landing Gear & Missile

- PA2.3x8mm Screw: 8
- 2.6mm Collar: 2
- Missile
- Main Wheel: Ø40mm
- Bottom View
- Aileron Servo Lead
- Carbon Fiber Tube: Ø4x360mm
- Main Landing Gear & Missile: 5
- PA2.3x8mm Screw
- Landing Wire Straps
- Bottom View
- Main Landing Gear:
  - M3x3mm Collar Ø2.6mm
  - Main Wheel Ø40mm
  - L/R
- Completed

GM034S1PO28941303 P.6
6 Front Landing Gear

Front Wheel Ø23mm
Collar Ø2.1mm

M3x3mm Set Screw

Front Landing Gear Ø1.8x134mm
Collar Ø2.1mm

Front Wheel

Front Landing Gear

M3x3mm Set Screw

Collar Ø2.1mm

M3x3mm Set Screw

Collar Ø2.1mm

M25x3mm Set Screw

Collar Ø2.1mm

Steering Arm PL4112215

Pushrod Ø1.2x106mm

Steering Arm

Linkage

Connector

2.1mm

M3x3mm Set Screw

Collar Ø2.1mm

Steering Arm

Pushrod Ø1.2x106mm

Fuel Tube d2xD4x4mm

Straper

Rudder Servo
7 Radio Equipment

- Install and arrange the equipment as shown in the picture.

![Diagram showing radio equipment setup](image)

- Completed

8 Canopy

- Completed

![Diagram showing canopy setup](image)
9 Decals

- Top View
- Bottom View
### 10 Control Throws

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

- **Rudder**
  - 15 mm
  - 15 mm

- **Ailerons/Elevator**
  - 18 mm
  - 18 mm

### 11 C.G.

The ideal C.G. position is 101.6 mm (4 in.) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.

### Important Safety Precautions

- **# First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.**

- **# Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.**

- **# J-10B FIGHTER (AIR SHOW SCHEME) is specially designed to be powered by KM0283120 Outrunner Motor.**

- **# Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.**

- **# Check and re-tighten up all factory assembled screws, use thread locker if necessary.**
### Optional Parts

#### 40A Brushless ESC

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KC2040A02</td>
<td>55 x 28 x 12mm</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

- Current: 40A continuous
- Burst current (< 10 seconds): 55A
- Weight: 33g (with wires)
- BEC output: 3A
- Input:
  - Li-ion / Li-poly 2 - 5 cells
  - NiMH / Nicd 5 - 15 cells

#### Ducted Fan Propulsion Unit without Motor

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL6800010</td>
<td>1 set</td>
<td></td>
</tr>
</tbody>
</table>

- Operating Voltage / Current: 12V / 30A (35A Burst)
- Thrust: ~560A
- Weight: 60g (without motor)
- Rotor diameter: 67mm
- Outer casing diameter: 74mm
- Color: Black

#### Turbo Outrunner for ducted fan

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KM0283120</td>
<td>1 pc</td>
<td></td>
</tr>
</tbody>
</table>

- Kv (rpm / V): 3030
- Operating Power: 660W
- Operating Voltage: 6 - 15V
- Operating Current: 45A
- Peak Current: 60A (max. 15 sec.)
- Internal Resistance: 28 m ohms
- Diameter: 28mm
- Length: 31mm
- Weight: 60g
- Shaft Diameter: 3mm
- Shaft Length: 14.8mm
- Mounting Screw: M3 (Front) and M2 (Back)
- Distance of Mounting Holes: 16mm and 19mm (Front)

#### Clevis Wrench

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL8210010</td>
<td>1 set</td>
<td></td>
</tr>
</tbody>
</table>

- Ideal for electric models

#### Heat Shrink Tube

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT1115050</td>
<td>D5mm x 10cm</td>
<td>2 pcs x 3 colors</td>
</tr>
</tbody>
</table>

- Three colors (Black, Red, Yellow)

#### Micro Servo

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV2031</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Speed: 0.1 sec / 60° @4.8V
- Torque: 16kg.cm / 22.2 oz - in @4.8V
- Size: 22.4 x 11.4 x 20.0mm / 0.88 x 0.45 x 0.79in
- Weight: 7.8g / 0.28 oz

#### 2 - Pin EZ Connector

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011210</td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- Ideal for electric models

#### 3 - Pin EZ Connector

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP0011310</td>
<td>40A Max. Current</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- Ideal for electric models

#### 180mm Extension For Park Flyer

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW0011800</td>
<td>180mm</td>
<td>1 set</td>
</tr>
</tbody>
</table>

#### Silicon Wire

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Size</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW2110101</td>
<td>D4.0mm</td>
<td>1 set</td>
</tr>
</tbody>
</table>

- 1 M black & 1 M red / pkg