GS-BARON

INSTRUCTION MANUAL



Become thoroughly familiar with this manual, all parts and components prior to beginning construction or opening packages. Construction of the GS BARON differs in several areas to that the 50 BARON. Refer to the following instructions for the GS BARON.

Step 7 Omit

Step 11 Add four M3 Plate Washers.

Group 3 Power Unit Assembly

■ Bolt the cooling shroud mounting plate to the front of the engine.

M5	× 8 ⊕ Screw	4
М5	Serrated Wash	er4

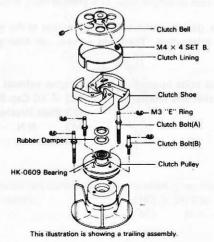
Attach the cooling fan to the engine and secure firmly with spring washer.

M6 × 25 Cap B	1
M6 Spring Washer	1

Install pully to the cooling fan with two clutch bolts (A), then add the two clutch bolts (B) to the clutch pulley.

Notice: Do not tighten bolts too firmly or they will break.

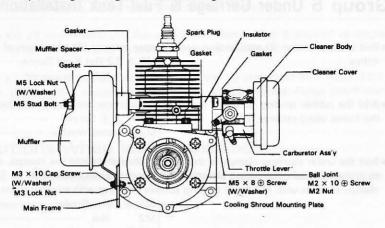
- Put a rubber damper on the pully as shown. Use a number 1 or 2. This four way clutch is adjusted for engagement by use of these dampers. If high RPM engagement is desired, use a higher numbered damper or multiple dampers; however, do not delay engagement of clutch to too high RPM as the clutch lining could burn and be defaced.
- Add a little grease to the damper then attach the four clutch shoes to the clutch bolts. The rubber damper must be placed on the upper side of the pulley.
- Secure clutch shoes to bolts with the M3 "E" rings.



	M3 × 10 Tapping Screw ·······3
	M3 Serrated Washer3
	STREET SHEET SHEET BOALT TOTAL
■ Bolt cross member (F) to bottom side of	the engine. Fasten back plate to engine
with M4 \times 30 cap bolts.	[M4 × 30 Cap B2]
With M4 × 30 cap boils.	M4 × 35 Cap B2
	M4 N.N4
	stain galatuon biorde pricos off foll s
TATE OF STREET WORLD SEE AMILE	Landan and Districting helt over
■ Remove Spark Plug, Carbretor, and Insu	
clutch bell, and install engine to the mai	[M3 × 12 Cap B2]
	M4 × 15 Cap B2
	M3 Plate Washer2
	M3 Plate Washer2
	M4 Plate Washer ·····2
	M3 N.N2
	Source (2) to shoughlight colony
■ Bolt cross member (F) to the main fram	e and fasten engine head.
	M3 × 10 Cap B2
	M4 × 10 Cap B2
	M3 Plate Washer ······4
	M4 Serrated Washer ·····1
terms no see then RPM at the chirch lining	M3 N.N2
	Linetall to the Carbretor
■ Add a ball joint to the throttle lever and	[M3 × 4 Set B1]
	M2 × 10 ⊕ Screw1
	M2 Nut2 Ball joint1
	[Ball joint
	ad air alassas to the engine paying atten
Install the insulator, gasket, carbretor a	nd air cleaner to the engine paying atten-
	dd screen, air filter and cleaner cover to
the cleaner body.	
	the second secon
	o the engine exhaust outlet, and add the
muffler spacer, gasket and muffler.	M3 × 10 Cap B1
	M3 Plate Washer ·····2
	M3 N.N1
	M5 Stud Bolt2

■ Bolt cooling shroud to cooling shroud mounting plate.

Screw Spark Plug into engine. Do not overtighten.



Group 4 Main Shaft, Drive Gear & Swash Plate Ass'y

Following step 24

■ Attach a ball joint to the upper plate lock.

M2	× 10	⊕ Screw	1
Ball	Joint		1

■ Connect the upper plate lock and the arm of the swash plate with M2.3 × 35 threaded rod agd two universal links. Adjust tie rod length so that the upper plate lock and swash plate arms are at right angles to each other, as shown.



Group 5 Under Carriage & Fuel Tank Installation

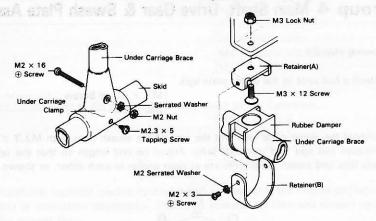
■ Bolt cross member (E) and landing gear damper retainer (A) to bottom of main frame.

[M3 × 12 Flat Head Screw------4]

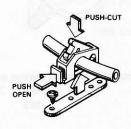
M3 N.N. -----4

■ Bolt the under carriage clamps to the brace. Slide skids into the clamps, adjust to proper position, then using clamp as a guide, drill 2mm holes in skids. Screw clamps to skids with M2.3×5 tapping screws securing with cyanoacrylate glue.

	Screw 4
M2 Nut	4
M2 Serrated	Washer ·····4
M2.3 × 5 Ta	apping Screw4



Assemble the fuel tank cap as shown, then insert it into tank and secure with M4 × 22screw. Place completed fuel tank into the main frame. Connect up tank to the engine using black rubber tubing, fuel filter and fuel stopper.



Notice:

- When attaching plug cap to spark plug, push on firmly.
- The KG 22 engine carbretor has a very precision bypass. If stopped up, engine will not run well. Use only clean fuel, through a fuel filter.
- The KG 22 engine has electric spark supression for protection from noise; however, use only R/C equipment which is also noise protected. Range check your equipment prior to flight.

Cautions when using gasoline

- Gasoline is more volitile than glow fuels. Do not handle near fire or open flame.
- Do not carry more gasoline than necessary.
- Do not burn trash or rubbish by pouring gasoline on it.
- Do not handle gasoline, nor operate engine except in a well ventilated area.
- Use a strong steel container for transporting gasoline, and keep it away from batteries. Do not use a plastic container, as it is subject to bursting due to expansion.
- Keep a fire extinguisher handy for emergencies.

GS BARON Parts List

No.	Name	Quan
B50-1-01	Sub Frame (L, R)	1ea.
GS-1-02	Servo Plate Retainer	2
B50-1-03	Cross Member (A)	D E1.8
B50-1-04	Body Mounting Bolt (F)	1
GS-1-05	Front Bed	1
GS-1-06	Main Frame (L, R)	1ea.
B50-1-07	Body Mounting Bolt(R)	2
B50-1-08	Radius Support Arm	3 1
GS-1-S	No. 1 Screw Set	1
B50-2-01	Slide Ring Assembly	1
GS-2-02	Pinion Gear	1
4WAY-01	Clutch Bell (W/Lining)	1
B50-2-04	626 Ball Bearing(W/Housing)	1
B50-2-05	1910 ZZ Ball Bearing(W/Housing)	1
B50-2-06	1970 Ball Bearing(W/Housing)	1

No.	Name	Quan.
GS-2-S	No.2 Screw Set	1
niperatub	KG-22 Engine Unit	1
GS-3-11	Cooling Shroud Mounting Plate	1
B50-3-03	Cooling Fan 💉	1
4WAY-02	Pulley	1
4WAY-03	Clutch Bolt (A, B)	2ea.
4WAY-04	Clutch Damper	1
4WAY-05	Clutch Shoe	4
4WAY-06	"E" Ring	4
GS-3-12	Cooling Shroud	1
GS-3-13	Cross Member(F)	1
B50-3-09	Starting Belt	1
GS-3-14	Cross Member(G)	1
GS-3-15	Throttle Lever	1
GS-3-16	Muffler Bolt, Nut, Washer	1set
GS-3-17	Muffler Spacer	1
GS-3-18	Muffler (W/Gasket)	1
GS-3-S	No.3 Screw Set	1
B50-4-01	605 Ball Bearing (W/Housing)	2
B50-4-01	Bevel Pinion Gear (Assy'ed)	1
B50-4-02	Main Shaft	niem d
B50-4-03	Upper Plate Lock (Plastic)	-
B50-4-05	Swash Plate, Swash Plate Collar	1ea.
B50-4-06	Pitch Control Rod	1
B50-4-10	Main Gear, Gear Ring	1ea.
GS-4-10	No.4 Screw Set	1
		2
GS-5-01 B50-5-08	Cross Member(E) Under Carriage Brace	2
	The state of the s	2
B50-5-03 B50-5-09	Under Carriage Skid Under Carriage Clamp	4
B50-5-05	Skid Cap	
	Okid Gup	4
B50-5-10 B50-5-11	Under Carriage Retainer(A) Under Carriage Retainer(B)	4
B50-5-11	Rubber Damper	4
GS-5-07	Fuel Tank	1set
GS-5-07 GS-5-08	Fuel Tubing (Gasoline proof)	1
UG-5-U0	Fuel Filter	1
	Fuel Stopper	1set
GS-5-S	No.5 Screw Set	1
K-620	Main Rotor Blade	1set
020	Pitch Gauge (Plywood)	1

No.	Name		Quan.
B50-6 5 B50-8	Same as 50 BARON	M4 × 30 Cap 6 M4 × 35 Cap 8 M6 × 25 Cap 8	
A A	50 BARON Instruction Manual 50 BARON Construction Drawing GS BARON Side View Plan Rotor Head Instruction Manual KG-22 Engine Instruction Manual	TAN Secretary	1 1 1 1
8 8	Accessories of KG-22 Engine Starting Rope Tools Fuel Mixing Cup	W.S. Serrated M.S. Pulla W. M.A. Plate W.	1 1set 1

GS BARON Screw Set Contents List

No.	Name & Size		Quan
	M3 × 8 Cap B.		10
	M3 × 10 Cap B.		3
	M3 × 12 ⊕ Bolt		4
	M2 × 10 ⊕ Bolt		2
	M3 NN		10
	M3 Nut		4
No. 1	M2 Nut		2
	M3 Plate Washer	HARLING RESERVE	4
	1.5 Hex. Wrench		1
	2 Hex. Wrench		1
	2.5 Hex. Wrench		1
	3 Hex. Wrench		1
	5 Hex. Wrench		1
	M3 × 8 Cap B.	799 397	1
	M3 × 30 Cap B		6
	M2 × 10 ⊕ Bolt		4
	M4 × 4 Set B.		2
No. 2	M3 N.N.		6
	M2 Nut		7
	M3 Plate Washer		4
	M3 × 10 × 1 Plate Washer		1
	Ball Joint		4
	M3 × 10 Cap B.		3
Na 2	M3 × 12 Cap B.		2
No. 3	M4 × 10 Cap B.		1
	M4 × 15 Cap B.	a same ex ma	2

No.	Name & Size	Quan.
	M4 × 30 Cap B.	2
	M4 × 35 Cap B.	2
F	M6 × 25 Cap B.	8.1
	M3 × 10 Tapping Bolt	3
	M5 × 8 ⊕ Bolt	4
	M3 N.N.	5
	M4 N.N.	4
	M3 Serrated Washer	3
No. 3	M4 Serrated Washer	1
	M5 Serrated Washer	4
	M3 Plate Washer	8
	M4 Plate Washer	5
	M6 Spring Washer	1
	M2 × 10 ⊕ Bolt	1
	M3 × 4 Set B.	20 1
	M2 Nut	2
	Ball Joint	1
	M3 × 22 Cap B.	1
	M3 × 30 Cap B.	2
	M3 N.N.	4
	M3 × 15 Cap B.	
No. 4	M3 Spring Washer	
140. 4	M2 × 10 ⊕ Bolt	MA COLUMN
	M2.3 × 35 Threaded Rod	49
	Ball Joint	1
	Universal Link	2
	CONTRACT TOURS	
	M2 × 3 ⊕ Bolt	8
	M2 × 16 ⊕ Bolt	4
	M3 × 12 Flat Head Screw	4
No.5	M2 Nut	4
	M3 N.N.	4
	M2 Serrated Washer	12
	M2.3 × 5 Tapping Bolt	4
	M3 × 8 Cap B.	4
	M3 × 10 Cap B.	2
	M3 × 15 Cap B.	2
	M3 × 30 Cap B.	4
N 0	M3 × 12 ⊕ Bolt	6
No.6	M2 × 10 ⊕ Bolt	11
	M2.3 × 8⊕ Bolt	6
	M3 × 4 Set B.	4
	M4 × 4 Set B.	8

No.	Name & Size	Quan.
	M2 Nut	8
	M2.3 Nut	4
N. 0	M3 Plate Washer	6
No. 6	M2 Plate Washer	1
	Ball Joint	2
	Universal Link	2
	M3 × 8 Cap B.	4
	M3 × 10 Cap B.	3
	M3 × 12 Cap B.	4
	M3 × 25 Cap B.	2
	M3 N.N.	13
N - 7	M3 Nut	4
No. 7	M3 Plate Washer	6
12	M2.6 ×10 ⊕ Bolt	20
	M2.6 Flange Nut	20
	M2.3 × 17 Threaded Rod	4
	Universal Link	11
	Quick Link	2
	M3 × 12 Cap B.	3
No. 8	M3 Plate Washer	6
NO. 6	M2.3 × 5 Tapping Screw	3
	Rubber Grommet	3

Rotor Head Installation Parts List

No.	Name	Quan.
	K-1 SB Head Assembly	1set
K-121	Control Lever	1
K-122	Rotor Blade Reinforcement	2
	Stabilizer Bar	1
	Stabilizer Blade	2
	Stabilizer Retainer	2
	M4 × 28 Cap B.	2
	M4 N.N.	2
	M3 × 18 Cap B.	2
	M3 × 20 Cap B.	1
	M3 × 4 Set B.	4
	M4 × 4 Set B.	1
	M3 N.N.	3
	M2.3 × 17 Threaded Rod	2
	M2.3 × 85 Threaded Rod	2
	M2.3 × 120 Threaded Rod	he that many my
	Universal Link	10