FE-BRU Belt Reduction Unit Instruction Manual

BELL WOOD Original Parts

Thank you for purchasing this upgrade. Please read the following instructions carefully before assembly.

1 - 4: Timing belt various size (230, 240, 245, 250 mm)

14: rear frame

31: L pulley T31

28: plywood

5: propeller nut M8-P1 6: propeller mount

8: propeller shaft & pulley mount ass'y

11: cross member 18.5 10: main frame

13: cross member CC 18.5

16: motor mounting spacer 17: mount spacer

20: S pulley T14 19: cross member AJ T=2.

22: motor shaft support housing

24: cross mount ϕ 71 25: cross mount ϕ 68

30: L pulley T30

33: L pulley T33 34: L pulley T34

37: L pulley T37 36: L pulley T36

27: mounting parts assorted

7: propeller shaft spacer

9: cross member 30.5

12: cross member C 18.5

15: cross member 62

18: motor mount (w/BRG)

21: flat head nut screw M3

23: motor shaft stopper AB

26: cross mount ϕ 60

32: L pulley T32

35: L pulley T35

38: L pulley T38

29: Finished unit

Specifications, design and prices are subject to change without prior notice. We assume no responsibility for any loss, damage or injury by negligent use.

1



Install cross member standoff #9 on the cross mount #25.



Install each cross member standoff on the main frame # 11.12.13. Note: it differs depending on L pulley size.



No1460000

Assemble A and B Using Hardware #27



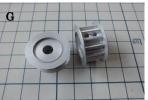
Check to see that parts 6, and 7 Fit onto the propeller shaft #8 before asembling.



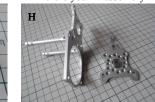
Assemble C and D. Note: adjust shaft clearance Before you fix assembly



Install a belt. Larger sized pulley should be mounted together with a belt.



If Gear # 20 is too tight on the shaft, Use a reamer to enlarge hole slightly.



Install cross member # 15 on the rear frame # 14, pre-assemble mount and assemble the the motor mount.



Install the motor on the motor pulley with a screw.



Assemble F-I, adjust belt alignment Note: Be sure to install set screw on pulley



Squeeze the belt slightly to adjust belt tension to 3 - 4 mm. Do not over tighten as this will shorten belt life



After completing steps J-K assemble Rear Frame, Install the Motor Shaft Support # 22 NOTE Use set screw.

「E-BRU」Belt Reduction Unit Instruction Manual

Original Parts

Thank you for purchasing this upgrade. Please read the following instructions before beginning assembly.

Checkall items before flight

- ·Shift to reserve for Futaba radio
- •Shift to default for ATV
- Check Start and Slow position
- ·Check Start and Slow position
- •Check about motor rotation direction without propeller mounted.
- Mount a propeller (be sure not to tighten too much!!)
- •Choose proper diameter or pitch of propeller to meet your airplane, or flight style.
- •Choose your preferable throttle curve to meet your fight style.
- •We recommend you natural braking. (idle 1, idle 2)
- Keep in mind to make very careful throttle operation. (to prevent quicker wear-out of the battery, and belt.)

Specification of Airplane.

•Total weight must be less than 5 Kg.

About current, voltage

- •Checking about the current (refer to the attached data)
- ·Adjust overcurrent with ATV or throttle curve.
- •Increase the throttle little by little to see final max. rpm (prop. $21x\ 14$ etc., use this 5850-6000 rpm as a guideline.
- •Reconsider about motor and gear ratio to meet your airplane and flight style just in case.

Checking items before and after flight.

Check to be sure all parts are TIGHT

Re-check belt tension after each flight

·Check circumstance near motor, and pulley

Check any abnormal noise. (inspect and REPAIR AS NEEDED)

** Take EXTRA CARE when you test or fly. **

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Ver.1.01

Motor model Weight 660-680 (gr.)

Wiotoi modei		or moder	Weight 000 000 (gr.)	
RPM/V:	400rpm/V	430rpm/V	450rpm/V	480rpm/V
Rotor Gear	2.214	2.429	2.5	2.643
Voltage:	10-12S	10-12S	10-12S	10-12S
Motor Poles:	10	10	10	10
Internal resistance:	0.031ohm	0.028ohm	0.024ohm	0.021ohm
Max Loading:	60A	65A	70A	75A
Internal resistance:	2500W	2750W	3000W	3330W
Timing:	6-22°	22°	22°	22°
Internal resistance:	8KHz	8KHz	8KHz	8KHz

You can choose favorite Kv value from above four types of motor to meet your airplane and flight style. You are also able to change your preferred Flight Mode by changing the gear ratio.

You can use other motors of your choosing.

Please let us know the dimensions so we can assist you with theinstallation.

Finished unit is for 400Kv







14/07





