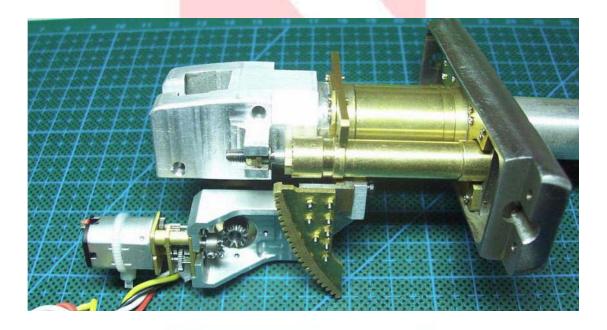
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PzKpfw VI Ausf. E Tiger I



Tank Recoil System

Assembly Instruction

Release 1:2011-12-23



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Tank Recoil System Assembly Ins V1.0

Part List

		Fait LIS	-		
PACK NO	Part No:	Name of Commodity and Specifications	QTY	USE FOR	Mem
1	T31	Gear box5 Copper Gearbox	1		Pre-assembled
2	T43	bevel gear	2	To A75/A44	Pre-assembled
3	T44	Gear Axis	1		Pre-assembled
4	T56	Straight gear 1	1		
5	T56A	L-shaped paddle	1		
6	T57	Straight gear	1		
7	T58	Gear box4	1		Pre-assembled
8	A24	MR63zz 3*6*2.5 Ball bearing	2		Pre-assembled
9	A70	SW 250V/1A Switch	1		
10	A74	Recoil ESC with speed/timing adjustment 5A	1		
11	A75	Gear Motor	1		Pre-assembled
12	A76	Φ3 E ring	1		
13	A77	Φ3.75*5mm Spring	1		
14	A78	Φ5.0*6mm Spring	1		Pre-assembled
15	A66	4Pin wire SM (F) T-1-12 4P SM Color wire L=280mm	1		
16	A4	M1.2*2.5 Bolt-head screws	2		
17	A22	M2*6 CSK SKT	2	Straight gear 1 to	

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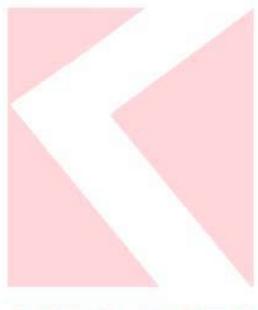
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AERO-MATE		Tank Recoil System Assembly Ins V1.0			
			_	breech	
18	A12	M2*8 CSK SKT Cup head Cap screw	2	Gear box to bracket	
19	A17	M3*3 grub screw	1		
20	A16	M2*8 CAP HEAD	3		
21	A31	M2 scale nut	1		
22	A34	M1.0*4 Phillips screws	2		Pre-assembled
23	A53	M1.6*3.5 Phillips screws	6		Pre-assembled
24	G-15 ECN	Breech (Alu)	1		
25	G-18R	Piston R	1		REV







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AERO-MATE Tank Recoil System Assembly Ins V1.0 Assembly Instruction Catalogue 1. Assembly 4 2. Connection 8 3. Test Firing 9

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1. Assembly

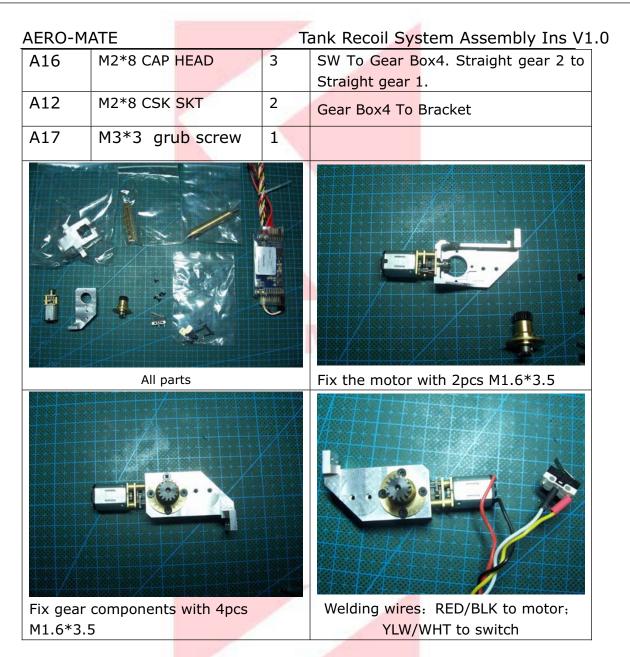
Part No:	Name of Commodity and Specifications		QTY	USE FOR	
T56	Straight ge	ear 1	1		
T56A	L-shaped p	oaddle	1		
T57	Straight ge	ear 2	1		
T58	Gear box4		1	To Bracket	
A70	SW 250V/1	LA	1	To Gear box4	
A74	Recoil ESC speed/timi adjustmen	ng	1		
A75	Gear Motor		1	To Gear box4	
A76	Φ3 E ring		1	To Piston R	
A77	Ф3.75*5mm	Spring	1	To Str <mark>aight ge</mark> ar 2	
A4	M1.2*2.5 screws	Bolt-head	2	L-shaped paddle To Straight gear 1	
A22	M2*6 CSK	SKT	2		



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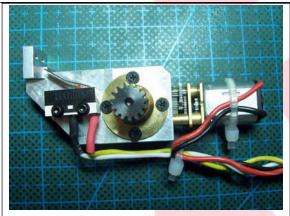


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Fix the switch with M2*8 screw.



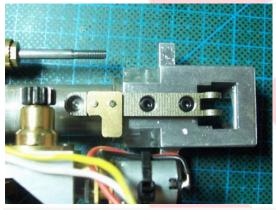
Install gear box assembly / tilt gear components on the bracket with 2pcs M2 * 8 screws.



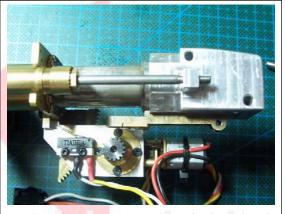
Fix the bracket with 8pcs M1.4*4 screws.



Install shock absorber tube; the right one with resistance device, equipped with E ring.



Breech and barrel connected; Fix straight gear 1 components with M2*6 screws.



Bucket link connected with the shock device; ensure that 88 guns slide well -it can be free to slide down with its own weight.



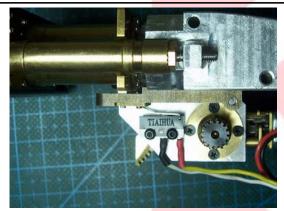


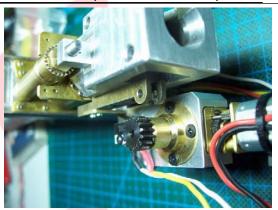
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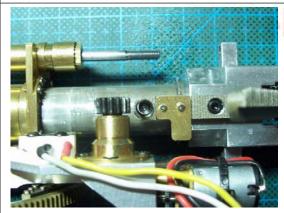
Tank Recoil System Assembly Ins V1.0



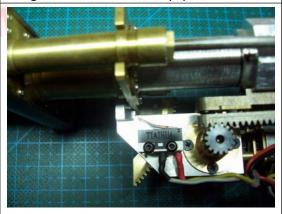


Make sure switch and L-rod contact perfect.

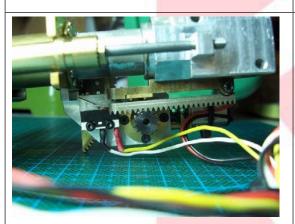
When connect ESC, you also need to adjust the rod angle to make sure that 88 gun can back to stop position.



Install compression spring, straight gear 2 (M2*8 cap head + nut)



Connect with shock rod again; make sure that straight gear 2 and the gear fit well during 88gun reduction process(or you may need adjust length of spring)



Tighten M2 screw properly .Make sure rack 1/2 open angle and compression spring won't off. Use screw glue to prevent nut loosening.



AERO-MATE Tank Recoil system For Tiger I is Ready



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Tank Recoil System Assembly Ins V1.0

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2. Connections

AERO-MATE Tank Recoil Esc CONNECTION TABLE

ESC	AERO	-MATE Multifund	Connect To	МЕМ	
	No	Name	Status	Connect To	
	1 (UP) /7	Firing Signal		MFU L3	2Pin Wire;
		in			1-RED/7-BLK
	2 (UP) /8	1s/6s	SHORT/OPEN		Jumper
12Pin	3 (UP) /9	NC			
	4 (UP) /10	NC	BAAT	i dente de la companya	
	5 (UP) /11	NC	-MAI		
	6 (UP) /12	NC			
	8(UP)/16	Motor +/-		Recoil motor	4Pin Wire.
	7(UP)/15	switch		Recoil	8-RED/16-BLK.
	/(0P)/15	SWILCH		Switch	7-YLW/15-WHI
	6(UP)/14	NC			
					2Pin Wire With
16Pin	5(UP)/13	Firing LED+/-		LED	LED.
					5-RED/13-BLK
	4(UP)/12	NC			
	3(UP)/11	NC			
	2(UP)/10	NC			
	1(UP)/9	NC	(*) · · · ·		
8.4V	1(RED)	8.4V DC+		Battery +	
DC-IN	2(BLK)	8.4V DC-		Battery -	

Color Description: RED-red /BLK-black /YLW-yellow /WHI-white

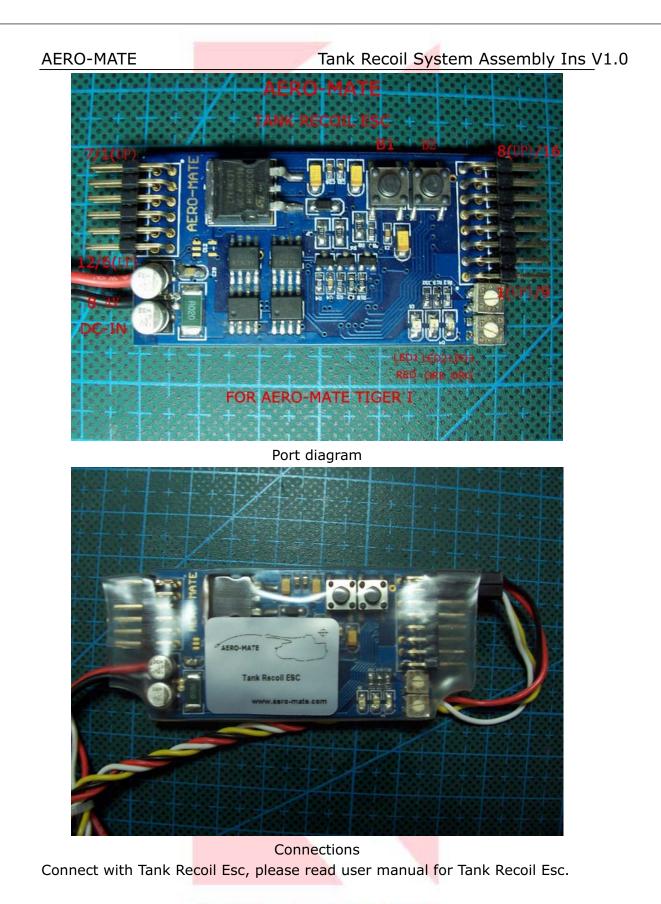
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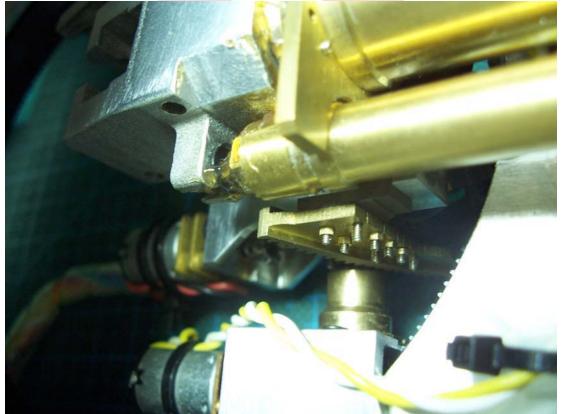
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3. HOW TO USE

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After right connections, you can fire 88 Gun with AERO-MATE Recoil system now.



Your 88 Gun will make different recoil movement depending on what you choose the Ammo.





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1 Changing Ammo

You can change Ammo of 88 Gun by pressing B1.

Ammo /LED	LED2 (GREEN)	LED3 (ORANGE)
Pzgr.39	off	on
Pzgr.40	O-	on
Gr.39HL	on	off

2 Test Firing

You can make a test firing of 88 Gun by pressing B2.

Notice: You should wait for certain time 1S/6S when changing Ammo or firing.





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4. Special Features

AERO-MATE Tank Recoil System has some special features

1 Automatic in-position

When esc is powered on, esc will check position of 88 Gun. If it is not in-position, esc will drive motor to finish the job. If it fails, esc will make a warning.

2 Mechanics Jam Protection

Whenever mechanics jam happens, esc will make a warning to prevent further mechanics damage.

3 Low battery warning

When battery is under 6V, esc will make a warning.

	warning ra	
SN	88 Gun Firing LED	Possible Reason/Solution
1	Long Flashing	Recoil switch is open or
		mechanics jam when power
		is on.
2	Short Flashing	Recoil switch is open or
		mechanics jam when after a
		firing.
3	Two short Flashing	Low battery

Warning Table

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