TOURSOR X5 ELECTRIC SCOOTER

INSTRUCTION MANUAL



Customer first, pursuit of excellence

DIRECTORY

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Warning

Please read the following warnings carefully before using this product and keep it in a safe place so that all users of this product can access it at any time.

Please follow national rules and regulations as well as local rules for safe and civilized driving. Injuries caused by illegal driving are not related to this product. Please follow all legal obligations and consequences.

⚠ When driving, please use protective equipment. It is forbidden to do any stunts, tire burns, drifts, or takeoff.

⚠ Do not disassemble or modify the product. In the event of a product malfunction, consult with our agents to check and service to find out the reasons.

⚠ The battery and battery compartment of this product are waterproof, but the scooter is not allowed to ride into the water as water can enter the battery compartment and damage internal circuits, causing the scooter to malfunction.

⚠ Please use only our specific accessories such as chargers, batteries, and so on.

⚠ This product is intended only for one person. It is strictly forbidden to transport several people simultaneously or to carry objects.

⚠ Do not charge indoors

Points for Riding

⚠ *Be sure to check the following before riding:*

- Adjust the handlebar height and the seat height to an appropriate position.
- Ensure the entire car's folding lock and folder safety buckle are in the locked state.
- Check that meters, headlights, and horns are in working order and have no fault codes.
- Ensure the brake system is working properly, with no disc grinding and the engine not being constantly activated after pressing the brake lever.
- Ensure the front and rear tire pressures are normal.
- Check that the nuts of the front and rear axis are not loose.
- Ensure the battery is sufficiently charged.

Points for Battery Care

⚠ • Ambient temperature greatly affects the battery. Do not expose it to force or damage it artificially. If you find any abnormal phenomenon, quickly transfer the scooter to a safe, open space and contact customer support in a timely manner.

⚠ • When the temperature is below 0°C, the battery power will decrease due to the decrease in molecular activity, but after the temperature rises, it will return to normal.

⚠ • Do not leave the scooter in the sun or in the rain.

Major Components



Folding Demo











Parameter X5-48V



Specifications

Basic	Model: X5-48V	**Motor**	Drive Mode: Double drive
	Colour: Orange、Black		Motor Type: Hall brushless motor
	Material: 6061 Aluminum alloy + Carbon steel		Motor Size: 11 inch
	Size: 11 inch		Motor Power: 1200W
	Origin: China Mainland		Max Speed: 45km/h (27 mph)
Spec.	N.W: 33kg	**Controller**	Voltage: 48V
	G.W: 40kg		Limit Current: 20A
	Dimension: 1280mm*253mm*1333mm	**Braking**	Type: ABS electromagnetic disc brake
	Folding Size: 1280mm*253mm*600mm		Disc Size: 160mm
	Packing Size: 1320mm*320mm*560mm	**Suspension**	Head Structure: C type suspension
Battery	Capacity: 48V 15Ah		Parameter: 1200lb shock absorbers*2
	Mileage: 60km (37mi)		Tail Structure: Independent suspension
	Brand: 21700		Parameter: 1200lb shock absorbers*2
Packing List	Folding scooter* 1, Seat*1, 2A Charger *2, Manual * 1, Toolkit *1	**Other**	Light: 4-Mode Headlights
			Max Load: 150kg
			Tire: 100/60-65 Off-road tires
			Certification: CE、ROHS、FCC、UL、MSDS、UN38.3、GCC

Parameter X5-52V



Specifications

Basic	Model: X5-52V	**Motor**	Drive Mode: Double Drive
	Colour: Orange, Black		Motor Type: Hall brushless motor
	Material: 6061 Aluminum alloy + Carbon steel		Motor Size: 11 inch
	Size: 11 inch		Motor Power: 2500W*2
	Origin: China Mainland		Max Speed: 60 km/h (40mph)
spec.	N.W: 86kg	**Controller**	Voltage: 52v
	G.W: 95Kg		Limit Current: 25A
	Dimension: 1280mm*253mm*1300mm	**Braking**	Type: ABS electromagnetic oil brake
	Folding Size: 1280mm*253mm*600mm		Disc Size: 160mm
	Packing Size: 1320mm*320mm*650mm	**Suspension**	Head Structure: Cripple suspension
Battery	Capacity: 52V 26Ah		Parameter: 1200lb shock absorber*1
	Mileage: 40km (24mi)		Tail Structure: Independent suspension
	Brand: 21700		Parameter: 1200lb shock absorber*2
Packing List	Folding scooter* 1, Seat*1, 2A Charger *2, Manual * 1, Toolkit *1	**Other**	Light: 4 MODE Headlights
			Max Load: 150kg
			Tire: 110/60-6.5 Off-road tire
			Certification: CE、ROHS、FCC、UL、MSDS、UN38.3、ECC

Parameter X5Pro-52V



Specifications

Basic	Model: X5Pro-52V	**Motor**	Drive Mode: Double drive
	Colour: Orange, Black		Motor Type: Hall brushless motor
	Material: 6061 Aluminum alloy + Carbon steel		Motor Size: 11 inch
	Size: 11 inch		Motor Power: 2600W*2
	Origin: China Mainland		Max Speed: 60 km/h (40mph)
spec.	N.W: 38kg	**Controller**	Voltage: 52V
	G.W: 45kg		Limit Current: 25A
	Dimension: 1280mm*253mm*1308mm	**Braking**	Type: ABS electromagnetic oil brake
	Folding Size: 1280mm*253mm*603mm		Disc Size: 180mm
	Packing Size: 1328mm*320mm*650mm	**Suspension**	Head Structure: Chype suspension
Battery	Capacity: 52V 26AH		Parameter: 1200 lb shock absorber*2
	Mileage: 40km (48km)		Tail Structure: Independent suspension
	Brand: 21700		Parameter: 1200 lb shock absorber*2
Packing List	Folding scooter* 1, Set*1, 2A Charger *2, Manual * 1, Toolkit *1	**Other**	Light: 4-Piece Headlights
			Max Load: 150kg
			Tire: 10*60-6.5 Off-road tires
			Certification: CE、ROHS、FCC、UL、MSDS、UN38.3、CCC

Parameter X5Pro-60V



Specifications			
Basic	Model: X5Pro-60V	**Motor**	Drive Mode: Double Drive
	Colour: Orange, Black		Motor Type: Hall brushless motor
	Material: 6061 Aluminum alloy + Carbon steel		Motor Size: 11 inch
	3GW: 11 KG		Motor Power: 3000W*2
	Origin: China Mainland		Max Speed: 65 km/h (52mph)
spec.	N.W: 42kg	**Controller**	Voltage: 67.2V
	G.W: 55kg		Limit Current: 50A
	Dimension: 1260mm*250mm*1100mm	**Braking**	Type: ABS electromagnetic oil brake
	Folding Size: 1260mm*250mm*600mm		Disc Size: 160mm
	Packing Size: 1320mm*320mm*550mm	**Suspension**	Head Structure: C type suspension
Battery	Capacity: 60V 40Ah		Parameter: 1200lb shock absorbers*2
	Mileage: 120km (74mi)		Tail Structure: Independent suspension
	Brand: 21700		Parameter: 1200lb shock absorbers*2
Packing List	Folding scooter* 1, Seat* 1, 2A Charger *2, Manual * 1, Toolkit *1	**Other**	Light: 4-Mode Headlights
			Max Load: 150kg
			Tire: 100/60-6.5 Off-road tires
			Certification: CE、ROHS、FCC、UL、MSDS、UN38.3、GCC

<2> Meter settings

All contents of the display screen (full display within 1s after startup)

P01: backlight brightness, level 1 is the darkest and level 3 is the brightest;
P02: mileage unit, 0: km;1:MILE;
P03: voltage level: 24V, 36V, 48V, 36V by default;
P04: sleep time: 0, no sleep;Other numbers are sleep time, range: 1-60;Unit: minute;
P05: boost gear: 0:3 gear mode;
P06: wheel diameter: unit: inch;Accuracy: 0.1;
P07: number of speed measuring magnetic steels: range: 0-255;
P08: speed limit: 0-100km / h, not open
P09: zero start and non-zero start settings, 0: zero start;1: Non zero start;
P10: drive mode setting 0: boost drive (determine how much boost is output through the boost gear, and the handle is invalid at this time).
1 : electric drive (driven by the handle, the power assisted gear is invalid at this time).
2 : power assisted drive and electric drive coexist at the same time (electric drive is invalid under zero start state).
P11: boost sensitivity setting is not enabled
P12: power assisted starting strength setting is not enabled
P13: power assisted magnetic steel disc type setting is not enabled
P14: controller current limit setting default 12a range: 1-20a
P15: controller undervoltage value
P16: ODO reset setting: long press the plus key for 5 seconds to reset the ODO
P17:0: disable cruise, 1: enable cruise;Auto cruise optional (valid for protocol 2 only)
P18: display speed proportional adjustment range: 50% ~ 150%,
P19: enable position of gear 0, 0: including gear 0, 1: excluding gear 0
P20:0: Protocol No. 2 1: 5S protocol 2: standby 3: standby

⚠ Notice:

. The meter is produced with standard batteries. If the battery is customized by the customer, the battery power display may be inaccurate, but it will not affect the use of the meter, and the battery life can be predicted through the real-time voltage;

. Due to the upgrade of the company's products, the display content of the product you get

<1> Function Definition

1. Power Button:
   - Off Page: Short press to power the meter and turn on the backlight,Turn the device on and off by placing an NFC card close to the LCD.
     After a short press to power the meter, NFC can be used to turn it on or off.
   - On Page: In the main page, short press to switch between TRIP, ODO, VOL, TEMP. In the settings page, short press to switch P values.
     Physical buttons directly connect to the IO port, recognizing low level.
2. Headlight Button:
   - Short press to turn on the headlight, short press again to turn it off.
     AD value button.
3. Horn Button:
   - Press to turn on the horn, release to turn it off.
     Physical buttons directly connect to the IO port, recognizing low level.
4. "M" Button:
   - Main Page: Short press to switch dual-drive mode, long press again to switch single-drive mode.
     AD value button.
5. "+" Button:
   - Main Page: Short press to increase the gear.
   - Settings Page: Short press to change the content of P values.
     AD value button.
6. "-" Button:
   - Main Page: Short press to decrease the gear, long press to switch to energy-saving mode,long press again to exit energy-saving mode.
   - Settings Page: Short press to change the content of P values.
     AD value button.
7. Press "+" and "-" buttons together for about 3 seconds:
   - Enter the settings mode.
     AD value button.

Turn Signal Explanation: Both left and right turn signals directly connect to the IO port. When the IO port detects a low level, the icon lights up, indicating the turn signal is valid. A high level turns off the icon.

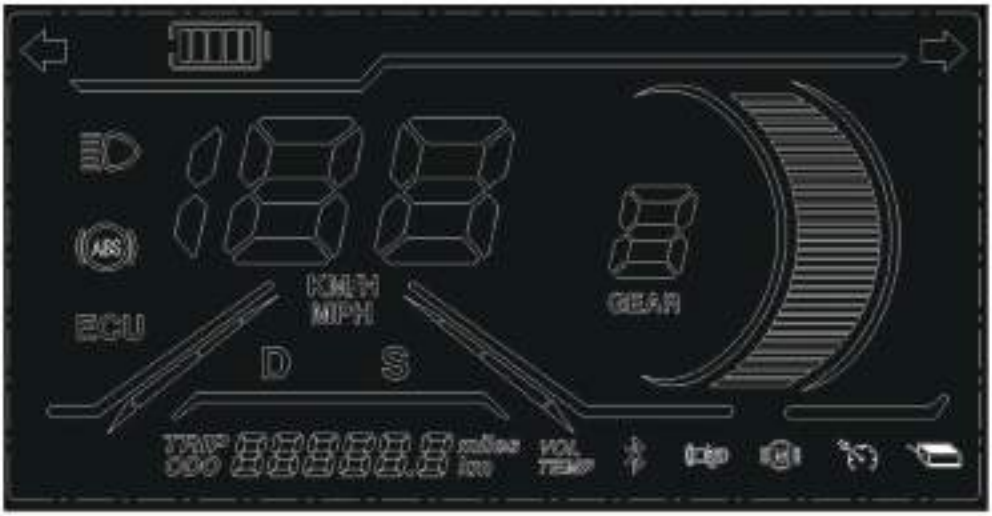
<2> Settings Instructions

- **P00:** ODO reset setting. Long press the up button for 5 seconds to reset ODO.
- **P01:** Mileage unit, 0: km; 1: mile.
- **P02:** Wheel diameter: unit inch; precision 0.1.
- **P03:** Voltage level: 36V, 48V, 52, 60, 72, default 48V.
- **P04:** Sleep time: 3, 5, 10 minutes.
- **P05:** Speed magnet count: range 1-6.
- **P06:** Speed limit: range 0-100 km/h.

  1. Communication status (controller control): Driving speed is maintained at the error ±1 km/h; (both assist and throttle are limited).

     Note: This value is based on kilometers. When the unit is switched from kilometers to miles, the speed value displayed on the screen will auto matically convert to the correct miles value. However, the speed limit value set in this menu does not convert and will not match the actual displayed mile speed limit value.
- **P07:** Zero start, non-zero start setting, 0: zero start; 1: non-zero start.
- **P08:** Drive mode setting, 0: assist drive (output assistance based on assist level, throttle is invalid); 1: electric drive (driven by throttle, assist level is invalid); 2: assist drive and electric drive coexist (electric drive is invalid in zero start state).
- **P09:** Assist sensitivity setting 1-5.
- **P10:** Assist start intensity setting 0-5.
- **P11:** Assist magnet disc type setting, 5, 8, 12 magnet types.
- **P12:** Controller current limit setting, default 12A, range 1-80A.
- **P13:** Controller undervoltage value.
- **P14:** Cruise control, 0: not enabled; 1: enabled.
- **P15:** Assist level, 3-level mode; 5-level mode.

<3> Display Explanation



Icon	Description	Icon	Description
	Left turn indicator		Right turn indicator
	Battery status		Current speed
	Headlight status		Brake status, brake fault
ECU	Energy-saving mode status		KM/H: Kilometers; MPH: miles
D	Dual-driver mode status		Single-driver mode status
	Bluetooth status		Throttle fault
	Motor fault		Cruise control status
	Controller fault	VOL TEMP	VOL: Voltage Display TEMP: Engine run time
TRIP 000 miles km			TRIP: Single-trip distance ODO: Total distance Miles: Mileage unit, miles Km: Mileage unit, kilometers 88888.8: Mode value
GEAR			S: Gear display Segment icon: Throttle AD dynamic display

<4> NFC Brief Explanation

1. Adding NFC Card

1. In the off state, press the M button until the screen NFC icon lights up.

2. The meter is factory-equipped with two NFC cards. Place any NFC card above the meter screen, it will power on within one second. Do not release, continue holding above the meter for about 6 seconds.

3. When the screen fully displays, it indicates entering the NFC card addition mode. After powering on, place the NFC card to be added above the meter screen. When you hear a beep, it indicates successful addition. (For meters without a buzzer, place the card for about 3 seconds, then remove for about 1 second and place it again. If the meter turns off,it indicates successful addition).

Note: After entering the NFC card addition mode, you can add NFC cards within 18 seconds. If no NFC card is added within 18 seconds, it exits the NFC card addition mode.

4. Up to three NFC cards can be added. After adding one, repeat the steps to enter the NFC card addition mode to add more. (Note: Adding one NFC card will automatically exit the addition mode). If three NFC cards have been added and you add another, the first NFC card will be deleted, saving the later added card.

2. Resetting NFC Card

After powering on the meter, long press the power button to enter settings. On the P0 page, long press the "+" button. After hearing a beep, it indicates factory reset. The meter will exitsettings and enter the main page. Place the main card to be switched above the meter. If the NFC card number is read and the meter turns off, it indicates the NFC card has been added.

3. Card Reading Operation

- **Power On:** Press the M button until the screen NFC icon lights up. Place an added NFC card above the meter screen. The meter will automatically power on after recognizing the NFC card.
- **Power Off:** Place an added NFC card above the meter screen. The meter will automatically power off after recognizing the NFC card.

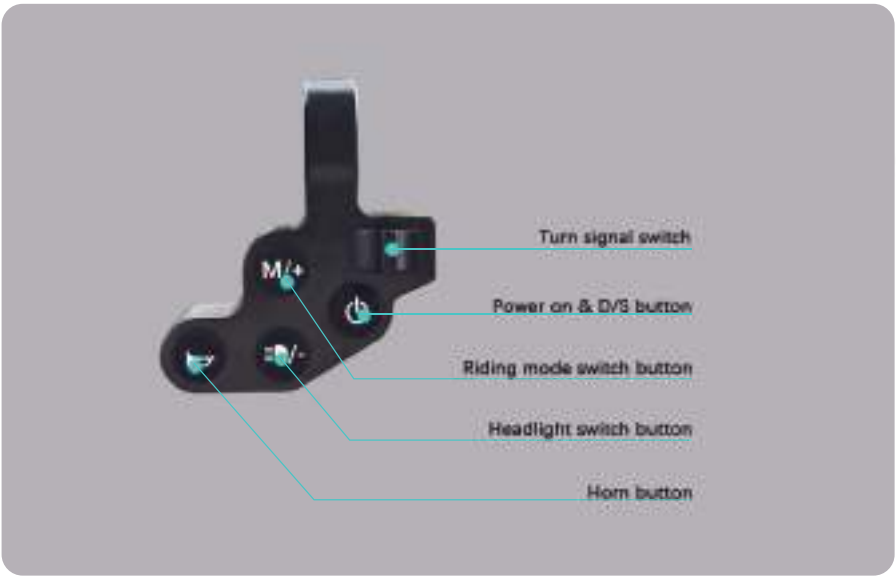
4. Adding Phone NFC Card

1. Confirm whether your phone has NFC function.

2. Create a persistent NFC card in your phone, such as a transit card or access card.

3. Follow the above instructions to add. It is not recommended to add the phone NFC card as the main card.


Turn indicator
Battery level display
Single drive/dual drive display
Headlight on symbol
Speed dynamic display
Power dynamic display
Speedometer
Driving mode switch
Fault indication
Cycling data


Turn signal switch
Power on & D/S button
Riding mode switch button
Headlight switch button
Horn button

<1> Switch button definition

1.Before power on.

Press the power button (⏻) once and then swipe the NFC card to power on/long press the power button to power on or off with the password (the initial password is 5555).

When entering the password state, the M key (M/+)is +, the headlight is minus, and the power key (⏻)is the confirmation key.

2.After power on.

The M key (M/+) controls the gear cycle.

The headlight switch (💡/-) turns on/off when the setting interface is not entered.

Single-click the power button (⏻) to control single/dual drive, double-click the power button (⏻) to switch the driving data.

Press the M key (M/+) and the power button (⏻) at the same time to enter the setting interface.

3.After entering the setting interface.

Press the power button (⏻) once to change the P value, press the M key (M/+) to change the corresponding value under the P value to increase, and press the headlight/- key (💡/-) to change the corresponding value under the P value to decrease.

<2> Fault code

Fault code	Fault status
E01	Motor failure
E02	Accelerator failure
E03	Controller failure
E05	Battery undervoltage fault
E06	Communication failure (the instrument cannot receive the signal from the controller)
E07	Communication failure (the controller cannot receive the signal from the instrument)

<3> P value parameter seting

P00	ODO reset setting	long press the up button for 5 seconds to reset ODO
P01	Mileage unit	0: km; 1: mile.
P02	Wheel diameter	unit: inch; accuracy: 0.1
P03	Voltage level	36V, 48V, 52, 60, 72, default 48V.
P04	Sleep time	4, 8, 10 minutes.
P05	Number of speed magnets	range 1-6.
P06	Speed limit	range 0-100 km/h.
P07	Zero start, non-zero start setting	
P08	Drive mode setting	0: Power drive (output power according to the power level, throttle is invalid)
		1: Electric drive (throttle drive, power level is invalid)
		2:Power drive and electric drive coexist (electric drive is invalid in zero start state)
P09	Power sensitivity setting	1-5
P10	Auxiliary start intensity setting	0-5
P11	Auxiliary magnetic plate type setting	5, 8, 12 magnetic plate types
P12	Controller current limit setting	default 12A, range 1-80A
P13	Controller undervoltage value	The default is 40
P14	Cruise control	0: Disable; 1: Enable.
P15	Auxiliary level	3 level mode; 5: level mode
P16	Password setting	the initial password is 5555

General maintenance

<1> Controller

· Electric control system by the controller, an acceleration instrument, the function switch.
·The controller has a variable speed, the brake power-off protection, under-voltage protection,current limiting protection.
·The controller is a motor speed control member, the controller performance is directly related toperformance riding vehicle, the rider in riding in claim slowly pulled accelerator, excessive force may damage the accelerator.
· User to regularly check controller, kept clean housing, is conducive to heat, to see whether the connection controller harness solid interfaces, such as interfaces fever deformed to be repaired immediately replaced.
· Users to regularly check the accelerator, power off the brake, such as the accelerator release,cannot be reset to timely exchange, power brake handle should also not be cut off electrical power immediately repaired or replaced.

<2> Power-supply system

· If you open the battery compartment cover, installing used in the battery compartment cover installation waterproof treatment
· Do not disassemble the battery body without permission, avoid short-circuiting the battery output terminals and damaging the battery.
· It is strictly forbidden to short the positive and negative terminals of, the battery with wires or conductors, so as to avoid unnecessary danger, lead to cell battery damage.
·The battery must be handled gently, avoid falling from the air, damage the carcass, have an unexpected danger.
·The battery should be charged dry, in a ventilated environment, avoiding humidity and away from flammable and explosive atmospheres.
· Dedicated battery charger it is forbidden to disassemble.
·The charger and the battery box are not cover any item, avoid poor heat dissipation, damage to the charger and battery.
· If notice a cruising range obvious decline, the user must check whether the battery is faulty, the timely repair or replacement.
·The charger is strictly prohibited to be carried with the vehicle, and the warranty cannot be carried out because it cannot be charged.
·The user should keep full battery state, ban production loss of power storage; otherwise, it will seriously affect battery life. The battery when not in use to conduct regular (general 2 months 1 time) charge.
·The battery should not be close to a flame, and it can be exposed to high temperatures. Do not special the battery into large and medium-sized batteries, and It is strictly forbidden to directly expose to sunlight.
·While charging battery time, don't be run the motor.
· If the terminal is broken, the battery pack is damaged or deformed, it should be repaired or replaced immediately.
· Do not use over-standard chargers, must use the special charger configured by our company, otherwise it will affect the battery life or damage the battery. We don't responsible! · Prohibit the charger no-load is connected to AC power.
·After charged, first should disconnect the AC power plug, and then unplug the battery charger is connected.
·The charger smoothly put, insert the charger output plug (low voltage direct current side), insert it into the charging socket in the correctly. Then the charger output plug (220V end) into an AC power socket with the same voltage and turn on the charger. At this time, the charger power indicator red light indicates that the power is on and charging starts. When the charging indicator turns green, charging is complete.
Be sure to follow the instructions above to operate correctly.

After-sales Service

Dear Users:

In order to ensure that consumers using TPF electric scooters can receive satisfactory after-sales service and protect the legitimate rights and interests of consumers, the company's products implement an appropriate policy of three guarantees.

<1> After-Sale Period

·Within seven months of receipt the goods, if there is a problem due to the quality of the product, after confirmation by the relevant staff, can go through the exchange related parts procedures; if the product is not a quality issue, the customer will need to bear the express delivery cost.

·Within one year of receipt, except for wearing parts, free maintenance.

· Receipt within two years, all the accessories cost price repair.

<2> Limit Warranty

The relevant personnel of the company or dealer after-sales staff identification product quality problem.

The following does not belong to the "three guarantees" the scope and content :

· No car purchase voucher and "Three Guarantees Certificate";

· Numbering and registration did not conform to the certificate;

·The user dismantled by himself, the modification is not the damage caused by the special repair and disassembly;

· Damage caused by impact, overload and chemical corrosion;

·The damage due to overloading use, passing obstacles, or extreme sports; · Damage caused by force majeure;

· Damaged appearance after-sale;

·Wheels, appliance, controller, light, vulnerable part and so on.

Legal Statement



1. Before riding, please ensure that the safety buckle and safety pin are locked.
2. Before riding, be sure to check all parts carefully to ensure that they are normal.
3. Please be sure to use our standard charger for charging.
4. Private modification is strictly prohibited. You are responsible for all consequences caused by private modifications.
5. Drivers must abide by local traffic rules and are not allowed to race on complicated road conditions.



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Please visit the official website of Amakou at www.amakou.net
and click on "Product Support" to view the relevant operation tutorials

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