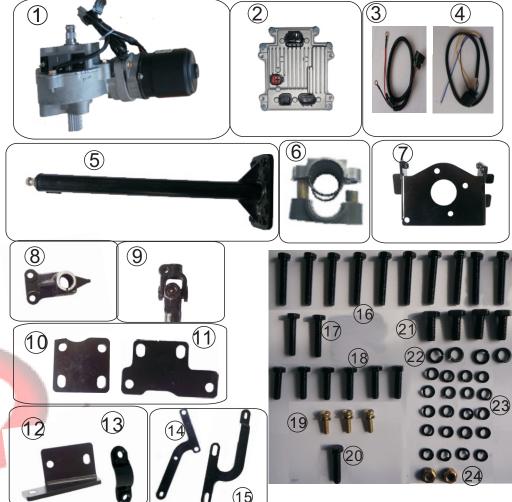
PAEPS-7001 Component				
NO.	Name	Qty		
1	Assembly	1		
2	ECU(controllor)	1		
3	Power Wire	1		
4	Signal Wire	1		
5	Up-Connect-Shaft 1			
6	Bracket for shaft 1			
7	Bracket for Assembly			
8	Lower Fork	1		
9	Universal joint	1		
10	Mounting Plate 1			
11	Mounting Plate 2			
12	Mounting Bracket 1			
13	Bolt plate 1			
14	Support Bracket 1 1			
15	Support Bracket 2 1			
16	M8*50 Screws 10			
17	M8*40 Screws 2			
18	M8*30 Screws 6			
19	M6*20 Screws 3			
20	M8*35 Screws			
21	M10*25 hex bolt 4			
22	M10 Spring Washer 4			
23	M8 Spring Washer 20			
24	M8 Screw nut 2			



Installation Essentials

* Check to be sure all the parts are present before starting installation. Firstly understand the part name and Installation location. *First check-Inspect vehicle to ensure it is complete in good condition. Then remove negative lead from the battery to protect the electronic circuit.

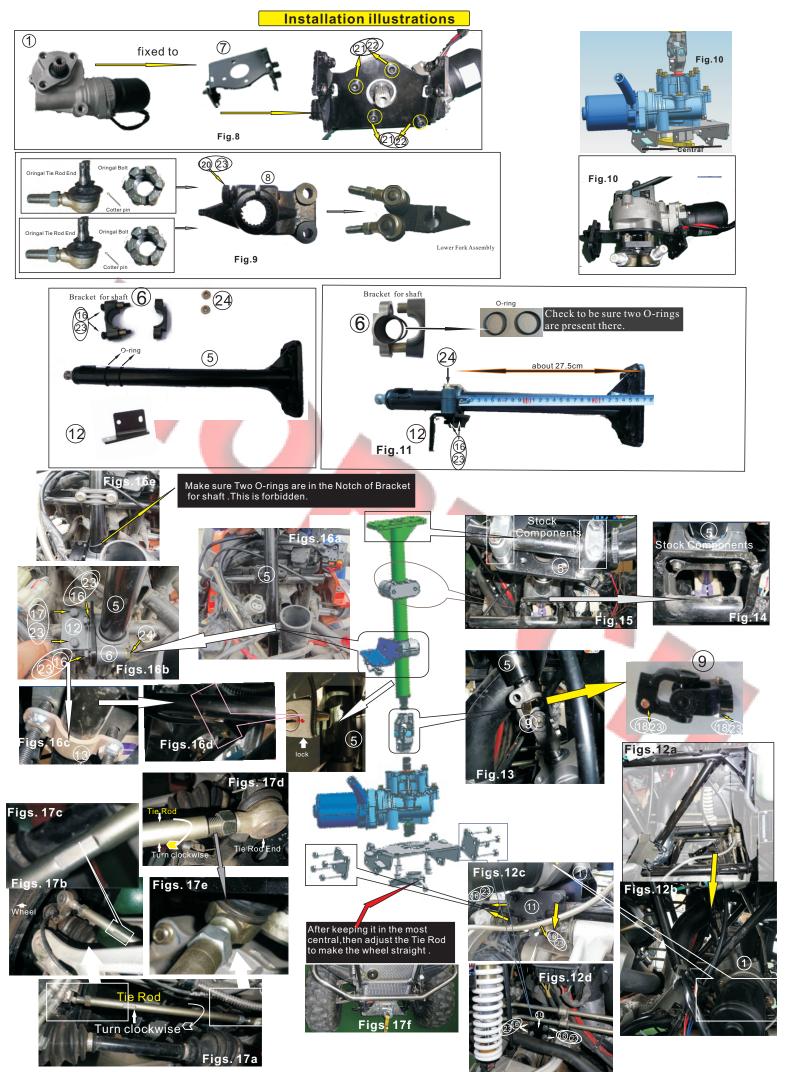


Removal: Keep all original hardware removed from machine.

- 1. Raise front of machine, secure with jack stands
- 2. Remove Handlebar Cover, Meter Cover, Rack, and Cover as Fig. 1.
- 3. Remove Handlebar Block . Place Handlebar out of way. See Fig. 2 .
- 4. Remove Steering Bearing. See Fig. 3.
- 5. Turn Tie Rods countercl<mark>ockwis</mark>e . Rem<mark>ove T</mark>ie Rods from Lower Fork .See Fig. 4a-c.
- 6. Pull Connect-Shaft out from top of machine.
- 7. Remove Shock Absorber. See Fig. 5.
- 8.Remove Voltage Regulator. See Fig. 6.Then you can see the bracket as the Fig. 7.

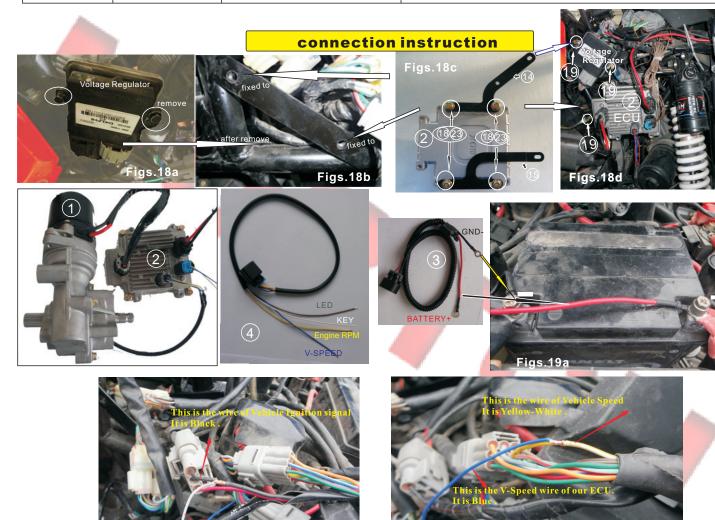
Installation: Do not tighten hardware unless noted.

- 1. Fix the Assembly (1) to the Bracket for Assembly (7) as Fig. 8.
- 2. Reinstall Tie Rod Ends to Lower Fork(8) with original hardware(in Figs. 4c). We call it Lower Fork Assembly . See Fig. 9.
- 3. Install Lower Fork Assembly to Assembly(1) as Fig. 10
- 4. .Install the Bracket for shaft(6) to the Up-Connect-Shaft(5) in the suitable location as Fig 11.
- 4. Fix Assembly onto machine .See Fig . 12a-d.
- 5. Install Universal joint(9) to Assembly as Fig .13.
- 6. From top of machine, insert Up-Connect-Shaft (5) and connect it with Universal joint (9) .as Fig .13.
- 7.Fix Up-Connect-Shaft (5) with the stock Bracket for shaft and hardwares of vehicle .as Fig .14.
- 8. Keep the Lower Fork Assembly and the Up-Connect-Shaft central. Use original hardware to reinstall Handlebar to Up-Connect-Shaft (5). Then tighten them with Screws .See Fig .15.
- 9. Fix Up-Connect-Shaft (5) with the Bracket for shaft (6) supplied by factory \(\) Mounting Bracket (12) \(\) Bolt plate (13) \(\) See Figs. 16a-d. Make sure two O-rings are in the Notch of Bracket for shaft after you stall \(\). See Figs. 16e.
- 10. Keep the Lower Fork Assembly in the most central, then Connect the Tie Rods to Tie Rod End and wheel. Adjust the Tie Rod to make the two wheels straight. See Figs. 17a-f.
- 11.Fix ECU(2) onto machine .See Fig . 18a-d.
- 12. Connect the Power and Signal wires as Fig. 19a-e.
- 13. Rotate handle in both directions 10 times to insure there is not any clash then tighten all the bolts.



Interface definition

Name	Colour	Type of signal	Connecting Location
BATTERY	Red	12V/35A	Connect to positive of Power source
GND	Black		Connect to negative of Power source
KEY	White	12V/0.1A	connected with the Black wire of your vehicle
V_SPEED	Blue	5V Pulse signal	connected with the Yellow-White wire of your vehicle
Engine RPM	Yellow		connected with the Red-Yellow wire of your vehicle
LED	Brown		connected with the Red-Brown wire of your vehicle

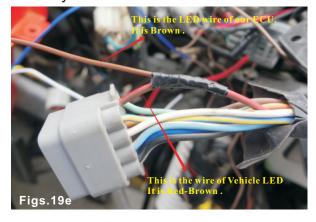


Tip: The Ignition wire of CFmotorX8 is black as the picture shows. And you can look for this wire from Keyhole.

Figs.19c



Figs.19b

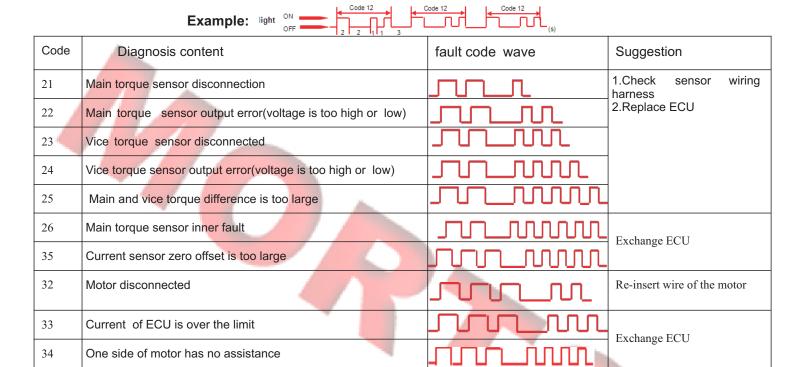


Electronic Fault Diagnosis Table

Start the vehicle and view the fault light (B), the light should turn on for one second then turn off, if the light remains on you have a incorrect connection in the system --repeat the steps from the beginning to find the fault.

If there is a malfunction with an electronic part, the system will create a code to identify the problem. Each fault codes displayes by a series of flashes with a fault light. Fault codes show with a light.

Every fault code is composed of double digits, each double digits is indicated by a series of long and short flashes of light. Each long flash represents a tens digit and is 2 seconds in length and each short flash represents a single digit and is 1 seconds in length. There will be a 3 seconds space between the long flashes and the short flashes. For example:long flash\long flash \space\short flash represents the code number 21. Multiple fault codes will be shown in order of the codes created by faults, one after another. For example:long flash\space\short flash \short flash\space\short flash, this would be code 12 and 22.



System Cautions

Motor voltage abnormal

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Electric power steering is a system which highly precision, sensitive and energy-saving, environmental protection and high-performance. In order to ensure the performance of the steering system, and improve the life of the steering system, we must insist on strict compliance with the following rules:

Check motor wire
Check motor plu

- 1. Do not dismantle the contol box because you may change the parameters of the sensors and create an imbalance between the power to the right and left steering.
- 2. Maintain a good battery, loss of battery power will result in heavy steering
- 3. Pack all electrical connections with dielectric grease where possible to help against corrosion especially in damp humid conditions.
- 4 .Do not tap into the EPS electrical harness for any other aftermaket components.this will affect the power supply to the system and create problems.
- 5. Connector of the system must be in good contact: avoid laying connectors in damp, high temperature environment to ensure its good conductive;
- 6. The controller must not be near high temperatures and protected from moisture.
- 7. When steering your machine and reaching maximum turn angle, do not hold that maximum position for longer than 3 seconds to ensure you do not overheat the electric motor and controller. 8. When motor is working, you must not insert or extract the connector of controller, motor and sensor to protect them from its shocks of the current.