

Lawn Mower

82SP25M
(LMB406)

Service and Repair Guide



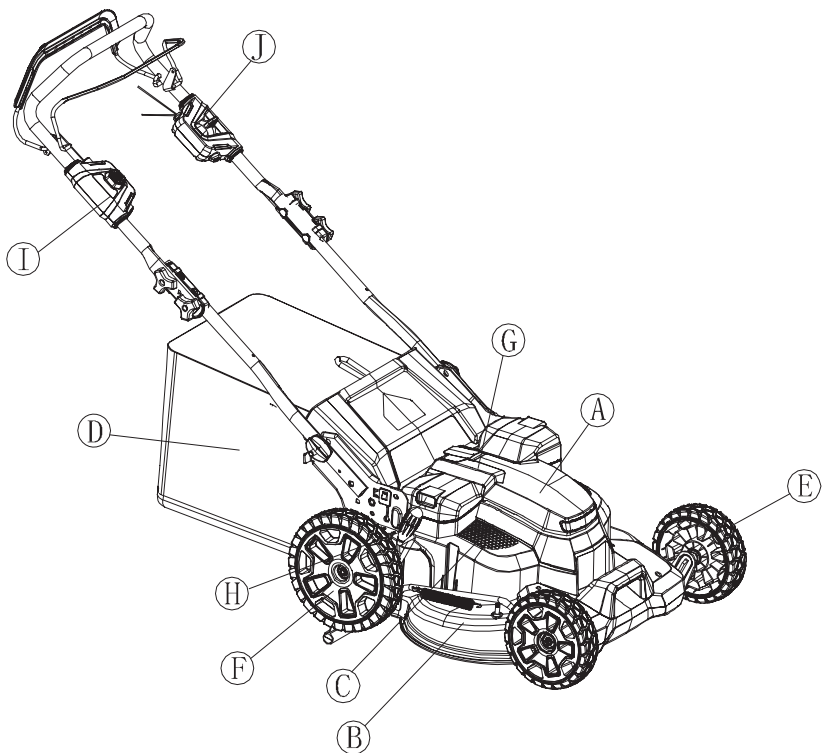
WARNING

Undertaking repairs to gardening tools can be hazardous. Use proper tools and safety devices noted in the guide and follow all the instructions. Do not proceed until you are confident that you understand all of the steps and are capable of completing the repair work. Some repairs should only be performed by a qualified technician.

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1. Components location

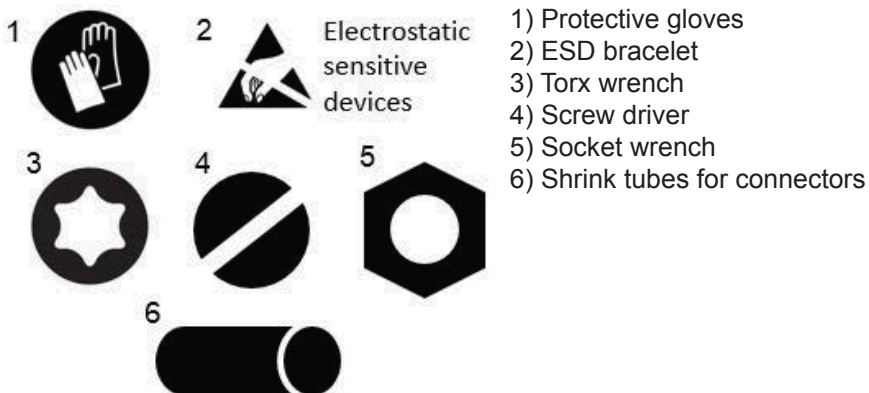


A	Top Cover and PCB
B	Blade
C	Cutting Motor
D	Grass Catcher
E	Front Wheel
F	Rear Wheel
G	Self-propelled Motor
H	Height Adjustment Lever

I	Main Blade Switch
J	Upper Handle and Sponge

2. Preparations

Tools

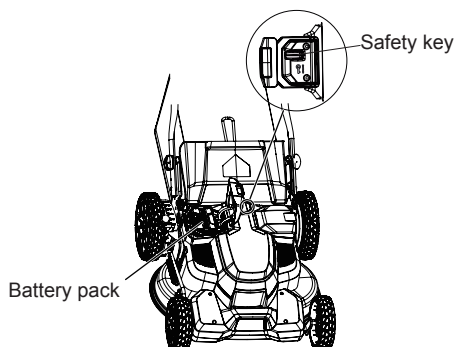


Function tests

After service and repair always conduct the following function tests:

- Check that blade runs freely;
- Check gearbox grease (GREASE LP2);
- Check all controls functionality.

Remove safety key and battery pack



WARNING

Always remove the safety key and battery pack before working on the mower.

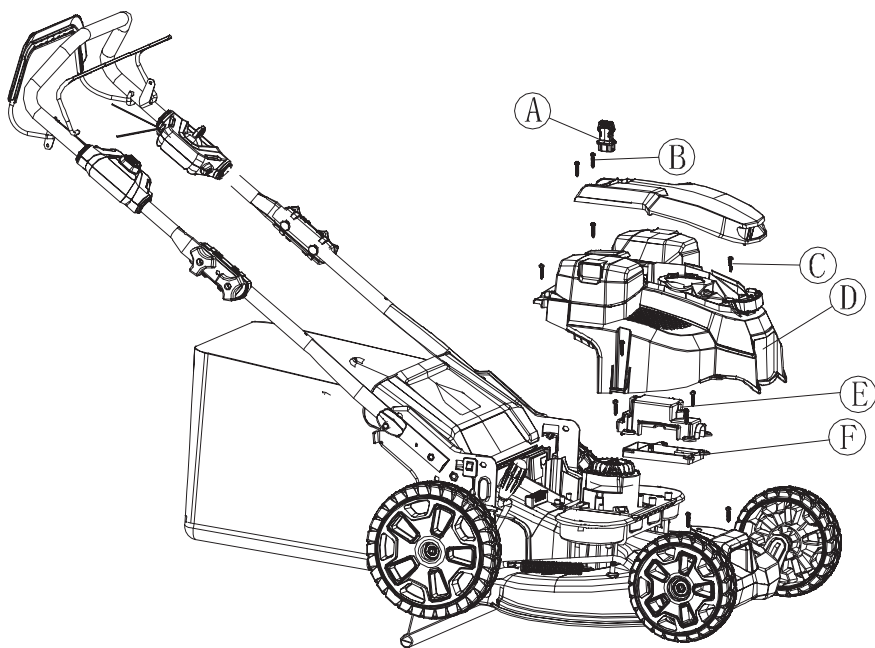
3. Troubleshooting

Problem	Possible cause	Solution
The handle is not in position.	The fasteners are not engaged correctly.	Adjust the height of the handle and make sure the fasteners are aligned properly.
The cutting motor doesn't start.	The battery capacity is low.	Charge the battery.
	The bail switch is defective.	Replace the bail switch.
	The safety key is not put in.	Put in the safety key.
	The blade is blocked.	Empty the grass bag, increase cutting height, inspect and clean cutting deck.
The self-propelled motor doesn't start.	The battery capacity is low.	Charge the battery pack.
	The self-propel drive lever is defective.	Replace the self-propel drive lever.
	The safety key is not put in.	Put in the safety key.
The machine cuts grass unevenly.	The lawn is rough.	Examine the mowing area.
	The blade height is not set properly.	Adjust the blade to a higher position.
The machine doesn't mulch correctly.	Wet grass clippings attach to the mower deck.	Wait until the grass dries before mowing.
	The mulch plug is missing.	Install the mulch plug.
There's a high vibration in the machine.	The blade is unbalanced and worn.	Replace the blade.
	The motor shaft is bent.	1. Stop the motor; 2. Remove the safety key and battery pack; 3. Inspect for damage; 4. Repair the machine before you start it again.
	The cutting deck is stuck with grass clippings.	Clean the cutting deck.
The machine stops during mowing.	The blade height is too low.	Increase the cutting height.
	The battery pack is out of power.	Charge the battery pack.
	Cutting deck or blade is stuck with grass clippings.	Remove the battery pack and clean the deck.
	Operation temperature of the machine is too high.	Cool the machine.

4. Top cover and PCB

Disassemble

- Remove the key (A);
- Untighten 2 bolts (B);
- Untighten 8 bolts (C);
- Remove the top cover (D);
- Untighten four bolts (E);
- Disconnect the links of the lines with PCB (F);
- Remove the PCB.



Assemble

- Install the PCB (F);
- Connect the links of the lines with PCB (F);
- Tighten four bolts (E) [torque: 1.2 ± 0.3 N.m];
- Put back the top cover (D);
- Tighten 8 bolts (C) [torque: 1.2 ± 0.3 N.m];
- Tighten 2 bolts (B) [torque: 1.2 ± 0.3 N.m];
- Install the key (A).

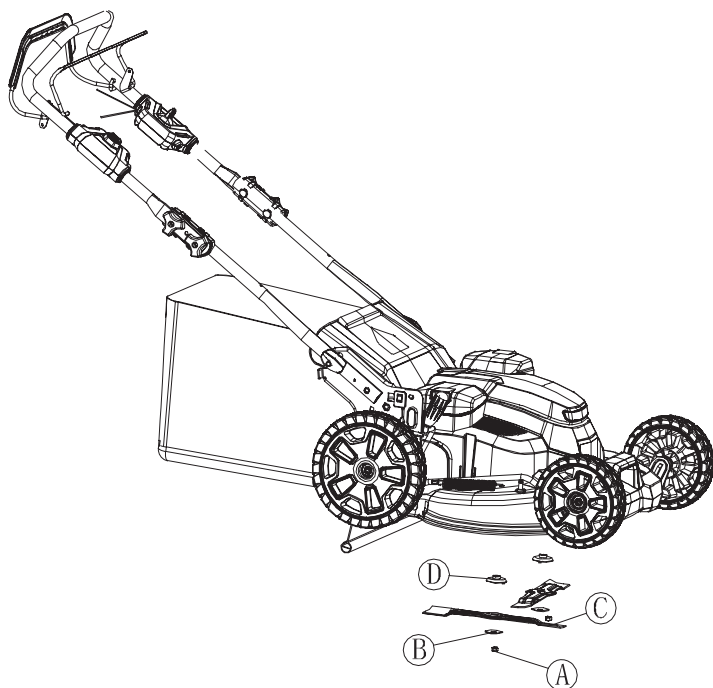
5. Blade

WARNING

Wear leather padded gloves. Wedge a block of wood between the blade and the deck in order to prevent the blade from turning.

Disassemble

- Untighten the nut (A) and spacer (B);
- Remove the blade (C);
- Remove the blade fixed seat (D).



Assemble

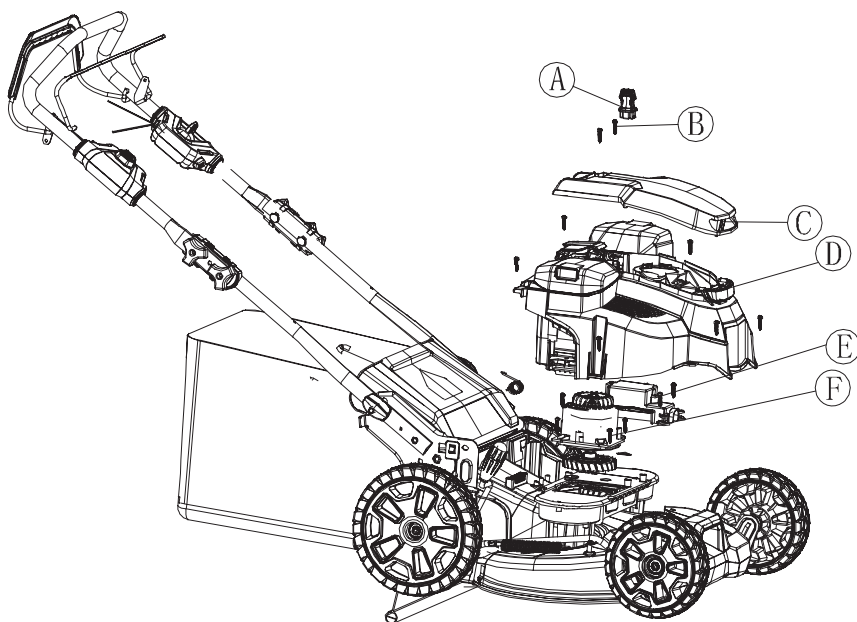
- Put back the blade fixed seat (D);
- Install the blade (C);
- Put back the spacer (B) and tighten the nut (A) [torque: 15 ± 3 N.m].

6. Cutting motor

Disassemble

Follow the chapter 'Blade' to disassemble the blade before removing the motor.

- Remove the key (A);
- Untighten 2 bolts (B);
- Untighten 8 bolts (C);
- Remove the top cover (D);
- Untighten four bolts (E), take out the PCB;
- Untighten four bolts (F) around the motor and free the motor.



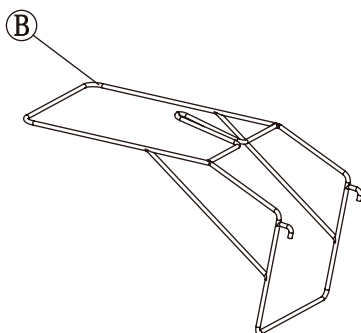
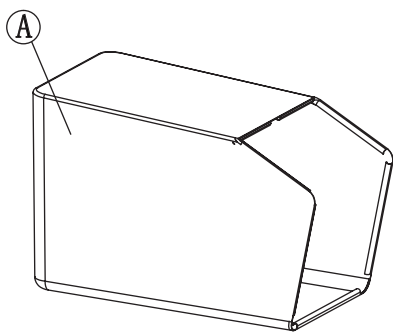
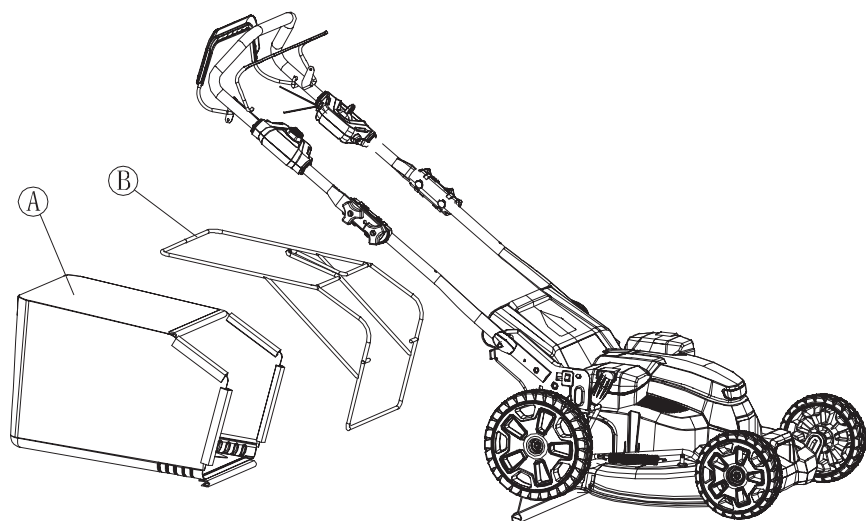
Assemble

- Install the motor and tighten four screws (F) [torque: 1.2 ± 0.3 N.m];
- Install the PCB and tighten four bolts (E) [torque: 1.2 ± 0.3 N.m];
- Install the top cover (D);
- Tighten 8 bolts (C) [torque: 1.2 ± 0.3 N.m];
- Tighten 2 bolts (B) [torque: 1.2 ± 0.3 N.m];
- Install the key (A).

7. Grass catcher bag

Disassemble

- Remove the grass bag assembly (A)(B);
- Separate the frame (B) from the bag (A).



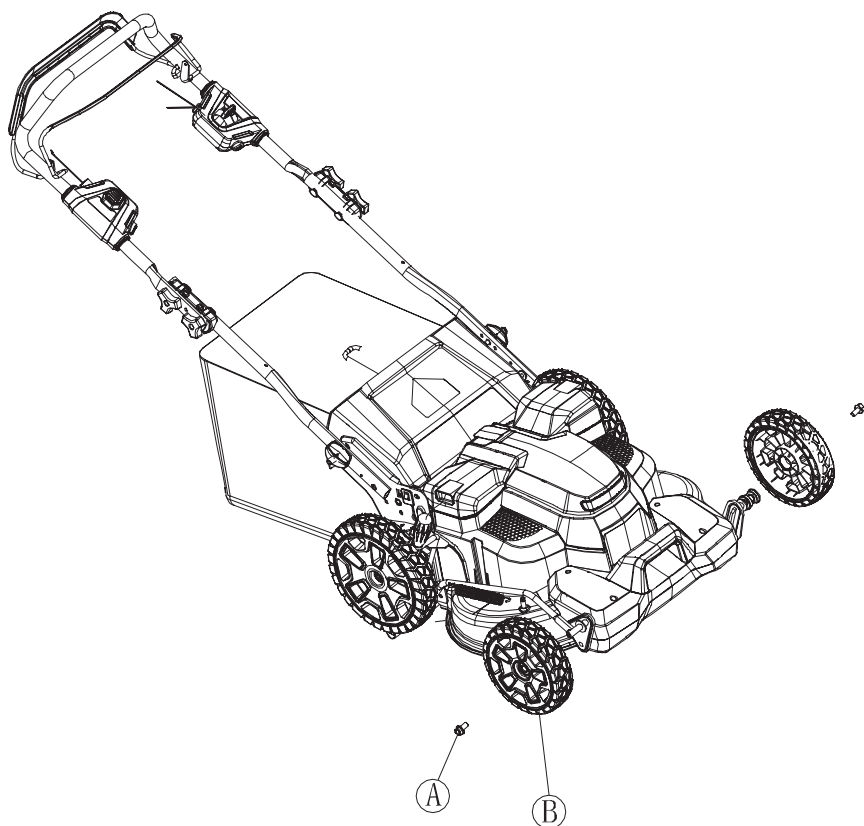
Assemble

- Attach the bag (A) with the frame (B);
- Put back the grass bag assembly (A)(B).

8. Front wheel

Disassemble

- Untighten the bolt (A);
- Remove the wheel (B).



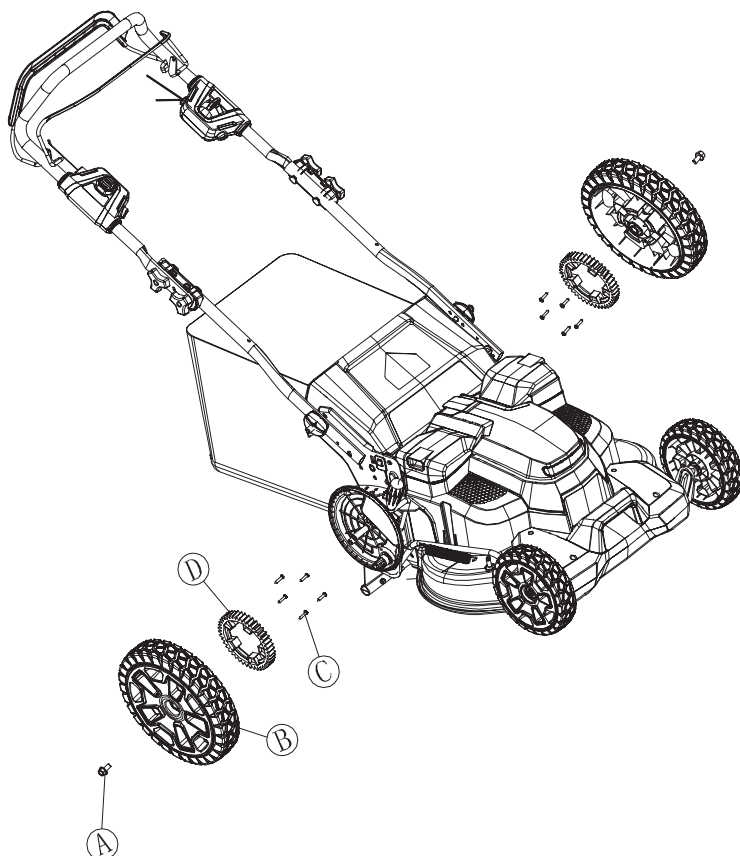
Assemble

- Install the wheel (B);
- Tighten the bolt (A) [torque: 15 ± 3 N.m].

9. Rear wheel

Disassemble

- Untighten the bolt (A);
- Slide off the wheel (B);
- Untighten five screws (C);
- Remove the spur gear (D).



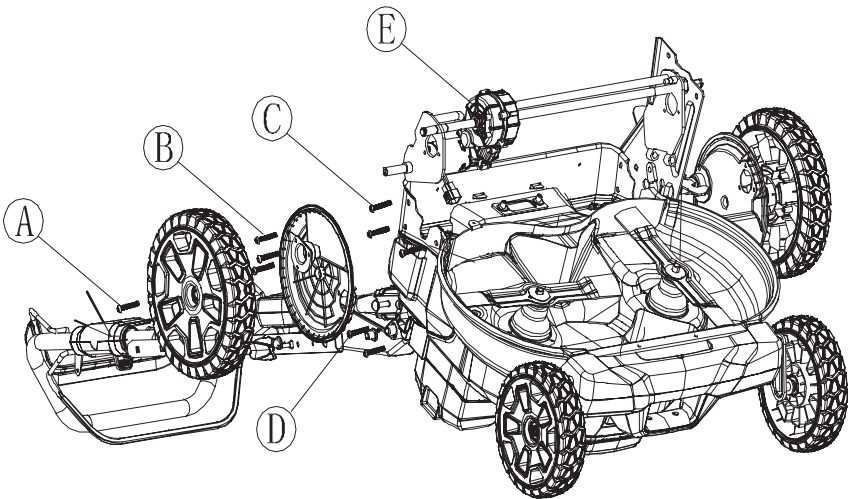
Assemble

- Install the spur gear (D);
- Tighten five screws (C) [torque: 1.2 ± 0.3 N.m];
- Slide back the wheel (B);
- Tighten the bolt (A) [torque: 15 ± 3 N.m].

10. Self-propelled motor

Disassemble (part 1)

- Follow the chapter 'Top cover and PCB' to disassemble the top cover and release the self-propelled lines;
- Loosen wheel bolt (A) and gear shaft fixed seat bolt (B) to remove the wheel and wheel cover;
- Remove the lower handle bolt (D) then remove the lower handle.
- Remove the height adjust panel bolt (C) to loosen the height adjust panel.
- Remove the height adjustment system (E).



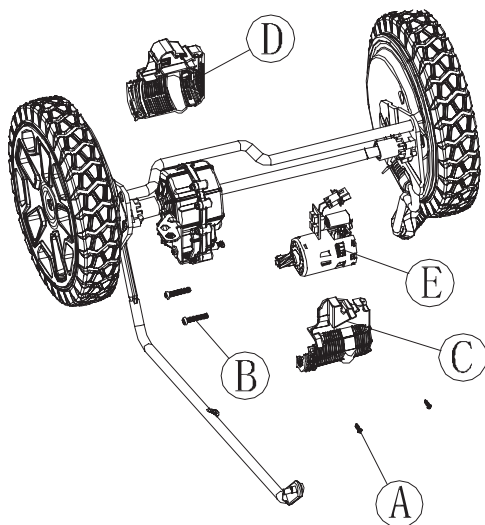
Assemble (part 1)

- Put back the height adjustment system (E);
- Tighten the gear shaft fixed seat bolt (B) then put back the wheel, tighten wheel bolt (A) [torque: 15 ± 3 N.m];
- Install the lower handle and tighten the handle bolt (D) [torque: 10 ± 3 N.m];
- Install the height adjustment panel then tighten the height adjust panel bolt (C) [torque: 10 ± 3 N.m].

10. Self-propelled motor

Disassemble (part 2)

- Remove 2 bolts (A);
- Remove 2 bolts (B);
- Remove gear reducer left housing (C) and right housing (D);
- Remove the self-propelled motor (E).



Assemble (part 2)

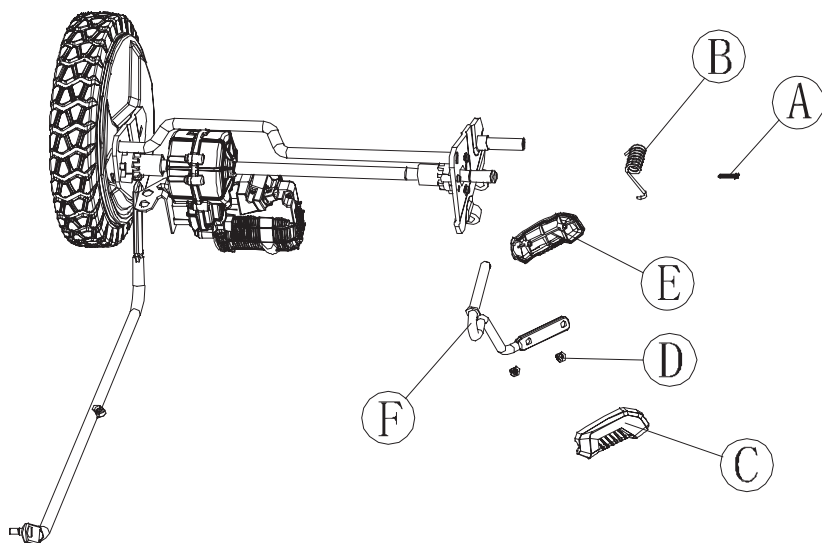
- Put back the self-propelled motor (E);
- Install gear reducer left housing (C) and right housing (D);
- Tighten 2 bolts (B) [torque: 1.2 ± 0.3 N.m];
- Tighten 2 bolts (A) [torque: 1.2 ± 0.3 N.m].

11. Height adjustment lever

Disassemble (part 3)

After disassembling part 1

- Remove split pin (A);
- Remove torsion spring (B);
- Remove lever left housing (C);
- Remove 2 bolts (D);
- Remove lever right housing (E);
- Remove height adjustment lever (F).



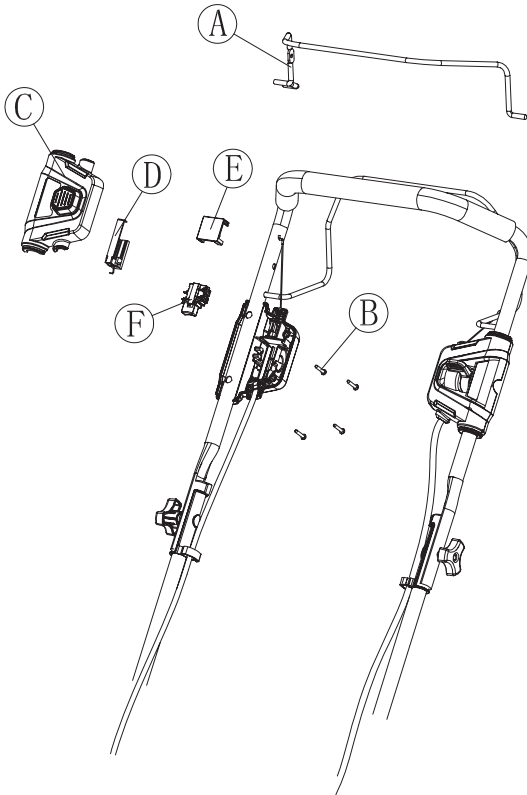
Assemble (part 3)

- Install split pin (A);
- Install torsion spring (B);
- Install lever left housing (C);
- Tighten 2 bolts (D) [torque: 1.2 ± 0.3 N.m];
- Install lever right housing (E);
- Install height adjustment lever (F).

12. Main Cutting Switch

Disassemble

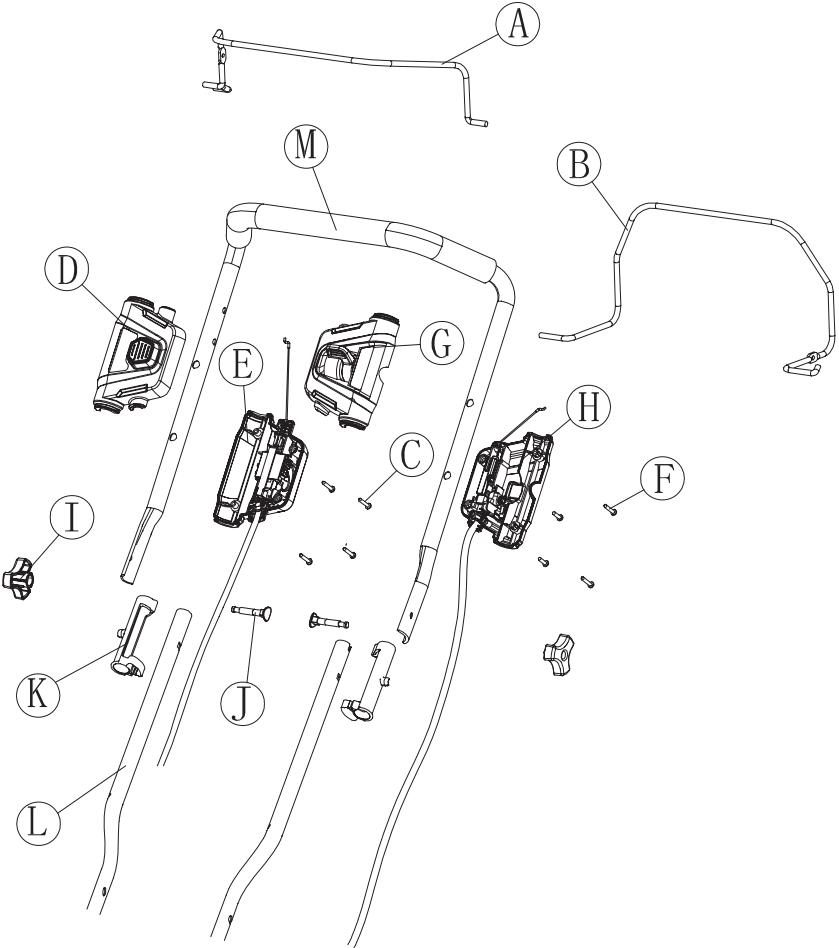
- Remove the upper pull handle (A);
- Untighten four screws (B);
- Remove the switch box upper cover (C);
- Remove the rigid mounting plate (D);
- Remove the switch box fittings (E);
- Remove the switch (F).



Assemble

- Install the switch (F);
- Fix the switch box fittings (E);
- Put on the rigid mounting plate (D);
- Fix the switch box upper cover (C);
- Tighten four screws (B) [torque: 1.2 ± 0.3 N.m];
- Install the upper pull handle (A).

13. Upper handle (full illustration)



13.Upper handle

Note: Please refer to the previous page for a full illustration.

Disassemble

- Remove the bail switch (A);
- Remove the self-propelled switch (B);
- Untighten four screws (C);
- Remove the switch box upper cover (D);
- Remove the switch box lower cover and fittings(E);
- Untighten four screws (F);
- Remove the speed adjustment switch box upper cover (G);
- Remove the speed adjustment switch box lower cover and fittings(H);
- Untighten the knob (I) and bolt (J);
- Remove the insulating sleeve (K);
- Remove the lower handle (L);
- Remove the upper handle (M);

Assemble

- Install the upper handle (M);
- Install the lower handle (L);
- Put on the insulating sleeve (K);
- Tighten the knob (I) and bolt (J) [torque: 1.2 ± 0.3 N.m];
- Fix the speed adjustment switch box lower cover and fittings(H);
- Fix the speed adjustment switch box upper cover (G);
- Tighten four screws (F) [torque: 1.2 ± 0.3 N.m];
- Fix the switch box lower cover and fittings(E);
- Fix the switch box upper cover (D);
- Tighten four screws (C) [torque: 1.2 ± 0.3 N.m];
- Install the self-propelled switch (B);
- Install the bail switch (A);

14. Wiring diagram

