STOPPING THE GENERATOR

Figure 10 Figure 11 Figure 12







To stop this generator:

1. Turn off all connected electrical devices and then unplug them.
2. Switch the circuit breaker to the “OFF” position. (Figure 10)
3. Allow this generator to run for several more minutes with no electrical devices connected to help stabilize the temperature of this generator.
4. Set the engine Run lever to the “Stop” position. (Figure 11)
5. Turn the Starter switch to Off Position. (Figure 12).

⚠ WARNING

Allow this generator to cool down before touching areas that become hot during operation.

⚠ CAUTION

Allowing diesel fuel to sit in this generator's fuel tank for extended time without use can increase the difficulty in starting this generator in the future. Never store this generator for extended time with fuel in the fuel tank.

MAINTENANCE/CARE

Proper routine maintenance of this generator is essential for safe, economical, and trouble-free operation. It will help prolong the life of this generator as well as help reduce air pollution. Perform maintenance checks and procedures according to the schedule in Figure 7.

⚠ CAUTION

Never perform maintenance procedures while this generator is running. Allow this generator to cool before commencing any maintenance procedures. Keep heat, sparks and flame away.

⚠ WARNING

Improper maintenance and/or failure to correct any problems prior to operating this generator can cause a malfunction which could cause death or serious injury. Always follow the inspection and maintenance recommendations and schedules in this manual.

Recommended Maintenance Schedule

		Each Use	Every Month or Each 20 Hrs	Every 3 Months or Each 50 Hrs	Every 6 Months or Each 100 Hrs	Every Year or Each 300 Hrs
Engine Oil	Check Level	X				
	Replace		X (First Use)		X	
Air Filter	Check	X				
	Clean			X		
Fuel Filler Cap	Clean				X	
Fuel Tank	Verify Gas Level	X				
	Clean					X

Figure 7 - Recommended maintenance schedule

Cleaning the Generator

Always try to use this generator in a cool dry place. If this generator becomes dirty, the exterior can be cleaned with a damp cloth, soft brush, vacuum and/or pressurized air.

Never clean this generator with a bucket of water and/or a hose as water can get inside and cause a short circuit or corrosion.

Never use gasoline to clean parts of this generator.

Checking the Oil Level

It is important to check the oil level in the engine crankcase before each use to ensure that there is a sufficient quantity.

To check the oil level:

1. Verify that this generator is shut down and on a level surface.

2. Unscrew the oil filler/dipstick cap from the engine.

3. With a dry cloth, wipe the oil off of the dipstick that is located on the inside of the cap.

4. Insert the dipstick as if replacing the cap and then remove again. There should be oil on the dipstick. If there is no oil on the dipstick, or oil is visible only at the very end of the dipstick, add oil until the engine crankcase is filled.

5. Confirm that the oil filler/dipstick cap is properly in place when finished verifying the oil level.

Changing/Adding Oil

The oil level in this generator should be checked before each use. (See Figure 8.) When the oil level is low, add oil until the level is sufficient to operate this generator.

To drain the oil from this generator:
The oil should be changed after the first 20 hours of operation. The oil should then be changed every 6months, or for every 100 hours of use time, or when it has become contaminated with water and/or dirt.

1. Place a tray underneath this generator to catch oil as it drains.

2. Unscrew the oil drain plug located on the crankcase underneath the oil filler/dipstick cap.

3. Allow all the oil to drain from this generator.

4. Replace the oil drain plug and tighten.

NOTE: Never dispose of used motor oil in the trash, down a drain or on the ground. Put oil in a sealed container and contact your local recycling center or auto garage to arrange oil disposal.

To add oil to the engine crankcase:

1. Confirm that this generator is on a level surface.

2. Unscrew the oil filler/dipstick cap from the engine as illustrated in Figure 8 below.

3. Using a funnel, add high detergent motor oil to fill the engine crankcase to the correct quantity. SAE15W-40 Diesel Grade oil is recommended for general use. When the engine crankcase is full, the oil level should reach the lower lip of the oil filling opening.

Oil Type Recommended	SAE 20W-40 Diesel Grade

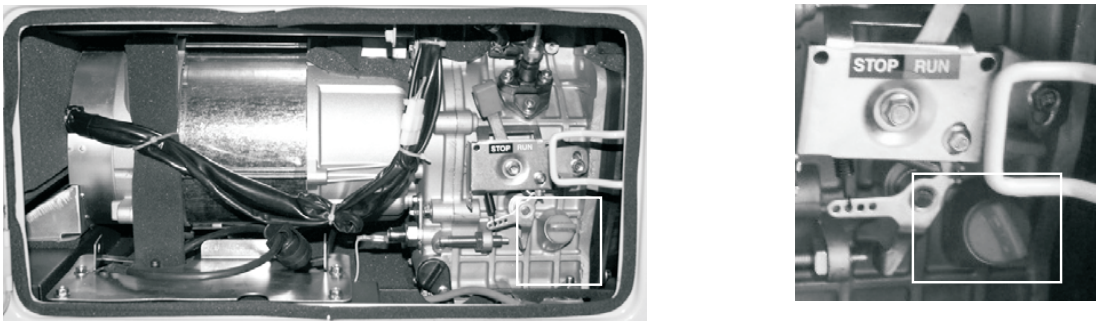


Figure 8

Air Filter Maintenance (Fuel Filter Maintenance)

Routine maintenance of the air filter helps maintain proper airflow to the carburetor. Occasionally verify that the air filter is free of excessive dirt. The air filter will require more frequent cleaning when operating this generator in extremely dusty areas.

To clean air filter, remove the access panel from side of generator, then remove wing nut to expose the element. (Figure 9)

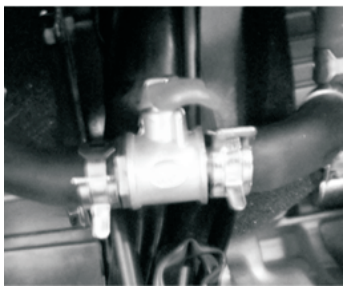
Remove the foam filter element from the generator and wash it in warm water and household dish detergent. Thoroughly rinse and dry. Pour a small amount of motor oil onto the filter, ring out ALL excess oil, and reinstall the foam filter element in the generator.



Figure 9 – Changing The Air Filter



(Figure A – Change Fuel Filter located inside front access panel once a year)



(Figure B – Fuel Valve)

Emptying the Fuel Tank

To store this generator for extended time, drain the diesel fuel from the fuel tank. To drain fuel from this generator:
1. Turn the fuel valve to the “off” position.
2. Remove the inline fuel filter.
3. Place a funnel underneath the fuel valve to catch fuel as it drains into a bucket.
4. Turn the fuel valve to the “on” position and allow all fuel to drain. (Figure B)
5. Turn the fuel valve to the “off” position.
6. Replace the inline fuel filter.
7. Store the drained fuel in a suitable place.

To store this generator for extended time, the fuel needs to be drained from the carburetor.

To drain the gasoline from the carburetor turn the fuel valve to the “off” position while the engine is running. The generator will shut down when all the gasoline in the carburetor has been used.

STORAGE/TRANSPORT PROCEDURES

⚠ CAUTION

Never place any type of storage cover on this generator while it is still hot.

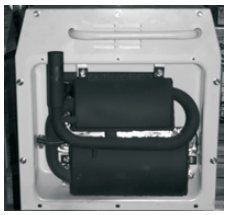
When transporting or storing this generator for extended time:
• Allow generator to fully cool before moving it. A hot engine and exhaust system can burn you and ignite some materials.
• Empty the fuel tank. (See “Emptying the Fuel Tank” in the “Maintenance/Care” section.)
• Turn the fuel valve to the “off” position.
• Do not obstruct any ventilation openings.
• Do not drop or strike this generator while moving it.
• Store this generator in a cool dry area, free of excessive dust.

Storage Time	**Recommended Storage Procedure** (which will help prevent difficult starts)
Less than 1 month	No storage procedure required.
1 to 2 months	Fill with fresh diesel fuel
2 months to 1 year	Empty the fuel tank. (See “Emptying the Fuel Tank” in the “Maintenance/Care” section.)
1 year or more	Empty the fuel tank. (See “Emptying the Fuel Tank” in the “Maintenance/Care” section.)

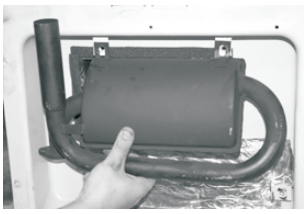
Replacing The Carbon Brushes



1. Remove Muffler Access Panel



2. Remove Dual Muffler System



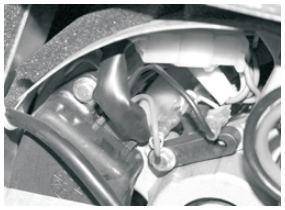
3. Remove Both Mufflers



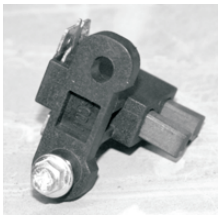
4. Remove End Panel



5.Brush Assembly is Visible



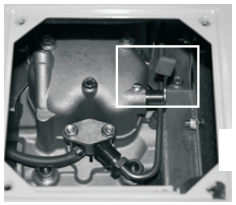
6. Locate Carbon Brushes



7. Replace Carbon Brushes

TROUBLESHOOTING

IMPORTANT: If trouble persists, please contact the retailer.

Symptom	Cause	Solution
Engine will not start.	Engine switch is set to "off."	Set engine switch to "on."
 (Figure 8)	Engine is out of diesel fuel.	Add diesel fuel.
	Oil is low.	Add or replace oil.
	Generator is not on level surface.	Move generator to a level surface to prevent triggering the low oil shutdown.
	Spring loaded Decompression Lever has closed the exhaust valve.	Open top panel. (Figure 8) Push down on Decompression Lever, reinstall top panel. Start engine.
	Engine is filled with contaminated and/or old diesel fuel.	Drain fuel from the engine and add new diesel fuel.
Engine runs but there is no electrical output.	Circuit breaker is off.	Flip circuit breaker to "on."
	Reset button is "off."	Push reset button to "on."
	Bad connecting wires/cables.	Try a different extension cord.
	Bad electrical device connected to generator. Loose wiring and/or connection behind control panel or at end of generator. Carbon brushes or AVR are worn or broken.	Disconnect device, try connecting another device. Tighten the nuts that secure the wiring. See Figure B . Visually inspect to make sure they are in contact with the two copper bands on the rotor. Replace as necessary.
Generator runs but does not support all connected electrical devices.	Generator is overloaded.	Reduce draw on generator to within this generator's rated wattage by reducing number of connected electrical devices.
	Short in one of the connected devices.	Disconnect any faulty or short-circuited electrical loads.
	Air filter is dirty.	Clean or replace air filter.

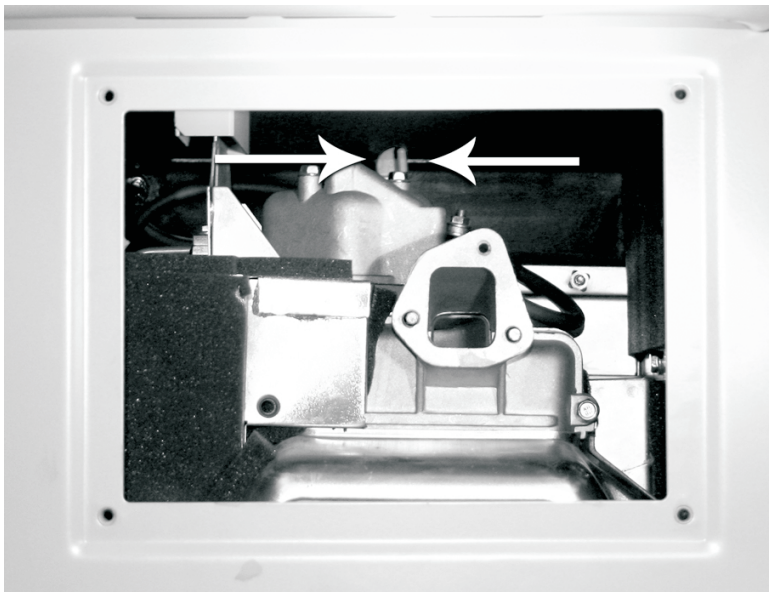


Figure A – Remove side panel, then remove air filter. Locate the “Red” Decompression Lever (Photo above shows it in the UP position). Press the lever down – this will hold the exhaust valve open. Replace the air filter assembly. Start the engine. You will notice that the spring loaded lever will automatically return to the UP position. (Also referred to as the decompression shaft assembly on the parts diagram.)



Figure B - Review the location of the AVR (Automatic Voltage Regulator. This item may eventually need to be replaced when they wear out.

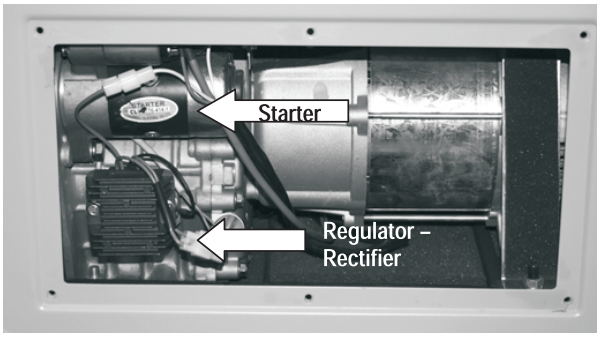


Figure C - Review the location of the rear access panel that has been removed. You can see the location of the starter and the regulator/rectifier for the 12V starting battery. The starter motor is located above the regulator/rectifier.

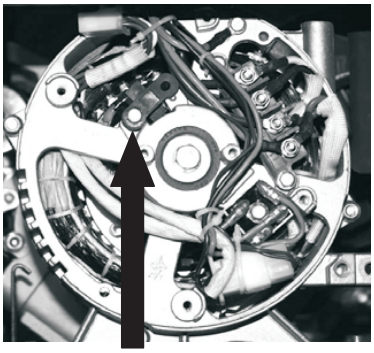
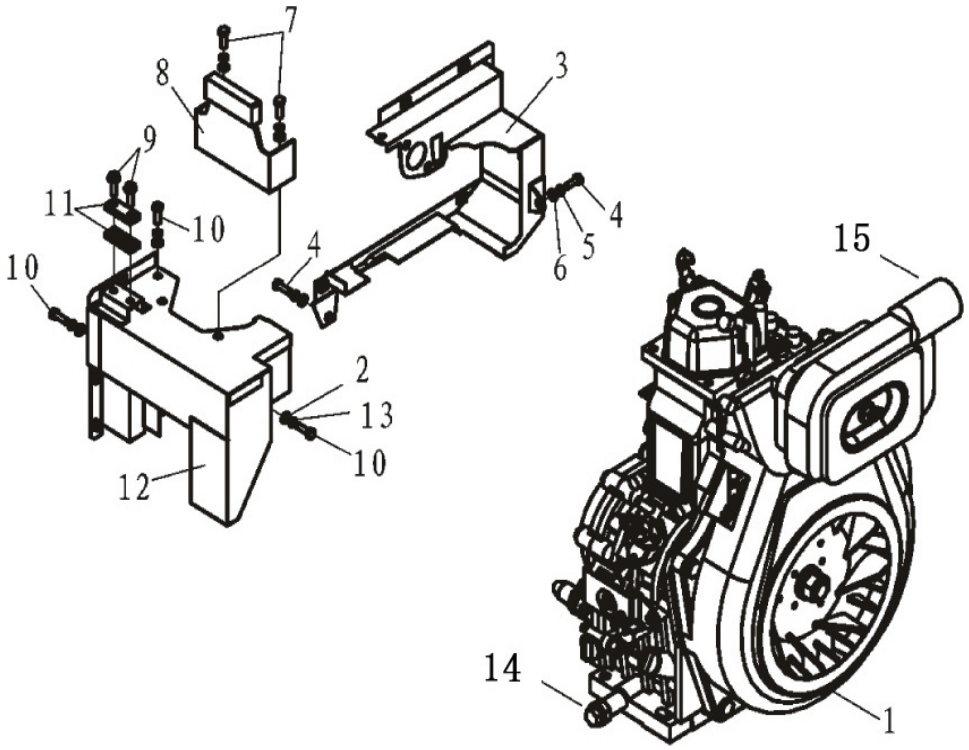
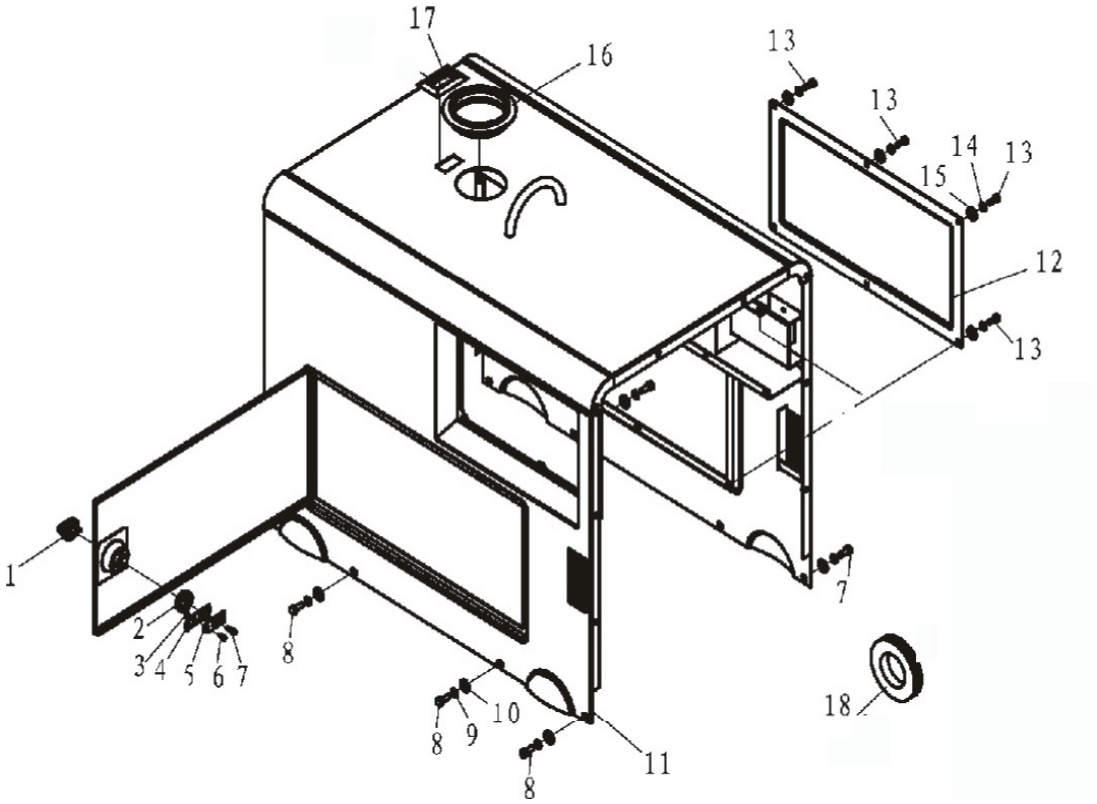


Figure D - Review the location of the Carbon Brushes. This item may eventually need to be replaced when they wear out.

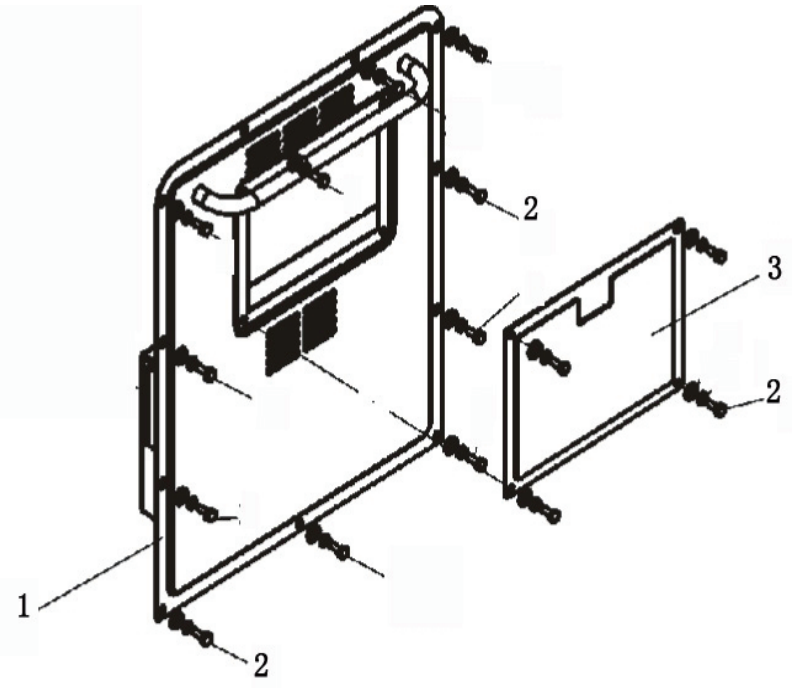
Exploded view



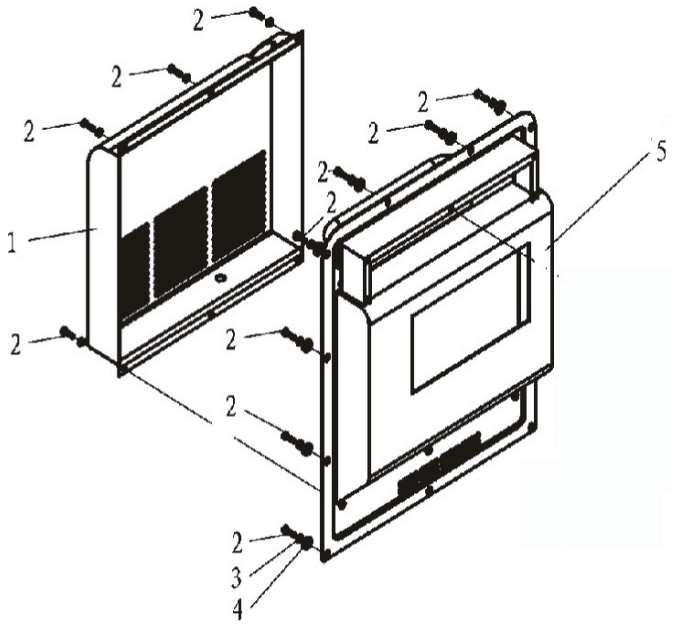
No.	Part Number	Part Description	Qty
1	186FA 188FA 192F	Air Cooled DieselEngine	1
2	GB/T97.1-2000	Gasket 6	2
3	6700-01001	FrontAirGuidePlate 6700.7500	1
	8500-01001	FrontAirGuidePlate 85000	1
4	GB/T5783-2000	Bolt M8x16	2
5	GB/T93-1987	ElasticWasher 8	2
6	GB/T97.1-2000	FlatGasket 8	2
7	GB/T5783-2000	Bolt M8x16	2
8	6700-01002	BufferBracket Unit 6700,7500	1
	8500-01002	BufferBracket Unit 8500	1
9	GB/T5783-2000	Bolt M6X30	2
10	GB/T5783-2000	Bolt M6X20	2
11	6700-01003	FuelPipePressurePlate Unit	1
12	6700-01004	Rear AirGuidePlateWeldm ent 6700,7500	1
	8500-01004	RearAirGuidePlateWeldment 8500	1
13	GB/T93-1987	ElasticWasher6	2
14	6700-01005	Oil DrainBolt(Longer)	1
15	186F-07000B	AirFilterAssembly(Silent Diesel generator)	1
	186F-07100	AirFilterElement 186. 188	1
	192F-07100	AirFilterElement 192	1



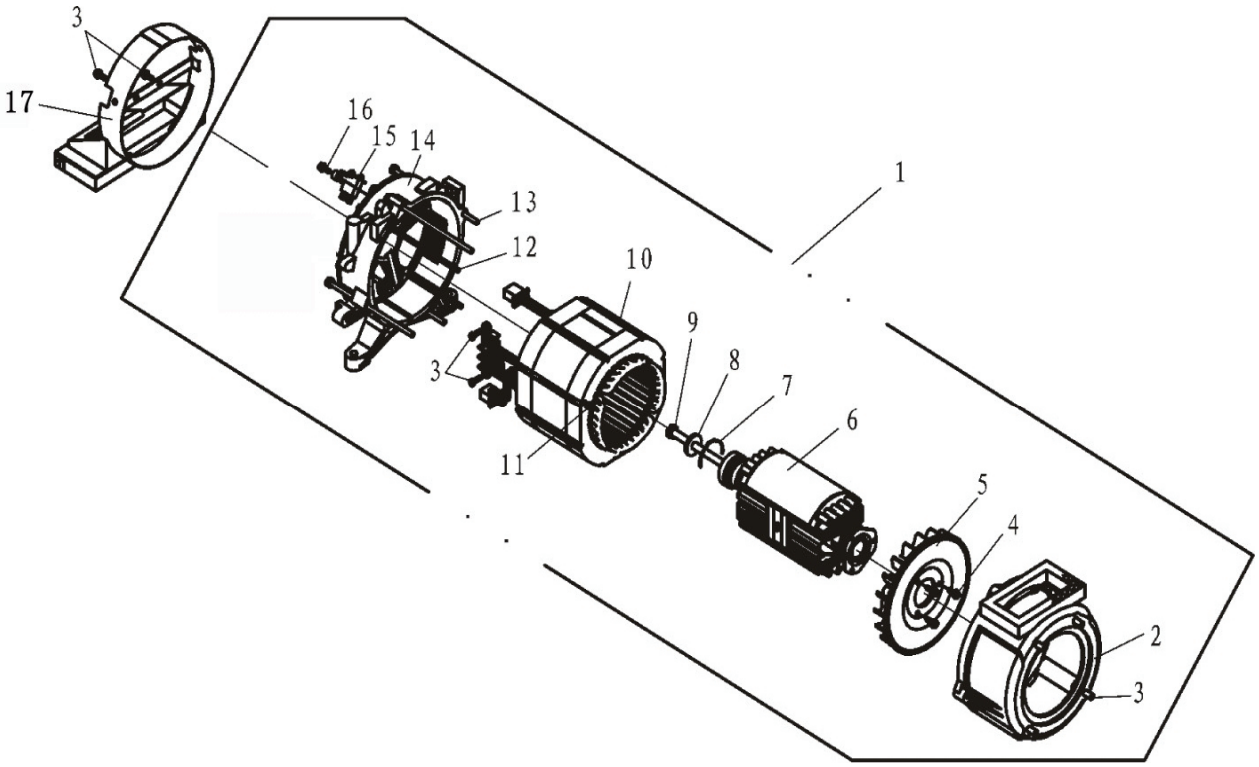
No.	Part Number	Part Description	Qty
1	6700-05100	Door LockAssembly	1
2			1
3			1
4			1
5			1
6			1
7			1
8	GB/T5783-2000	Bolt.M620	8
9	GB/T93-1987	ElasticWasher 6	8
10	GB/T96.2-2002	BigGasket 6	8
11	6700-05200	CasingWeldment	1
12	6700-01001	RearPlateWeldment	1
13	GB/T5783-2000	Bolt.M616	6
14	GB/T93-1987	ElasticWasher 6	6
15	GB/T96.2-2002	BigGasket 6	6
16	6700-05002	Damping Cushion of the FuelTank	1
17	6700-05003	BuoyWindow	1
18	6700-05004	Window Mount Sheath	1



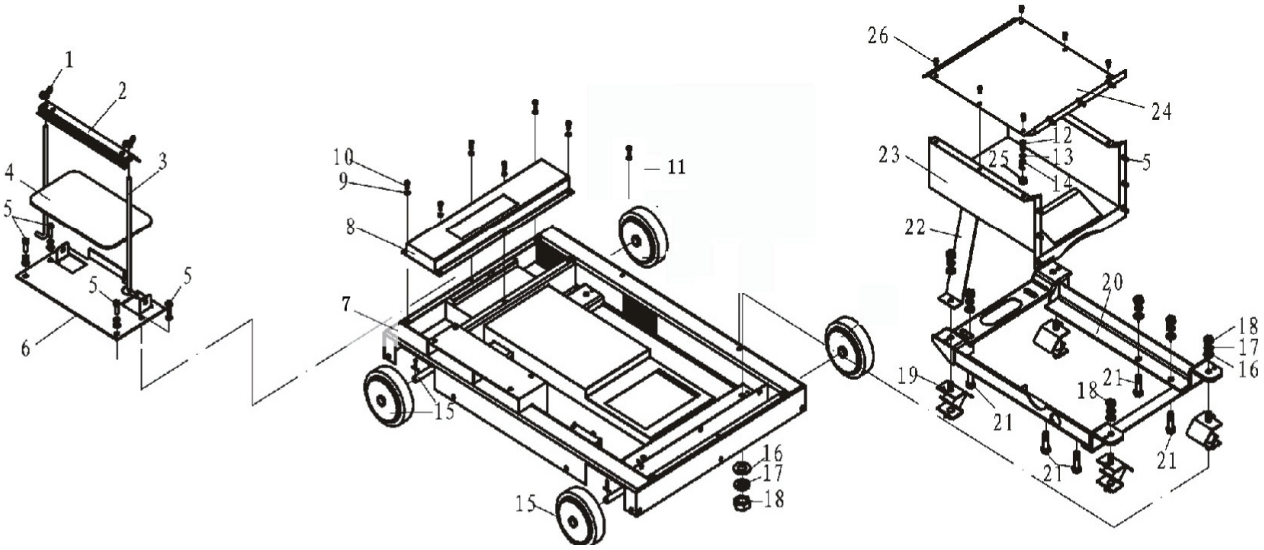
No.	Part Number	Part Description	Qty
1	KDF6700-06100	RightSidePlateWeldment	1
2	GB/T5783-2000	Bolt.M6x16	15
3	6700-06001	Air Cleaner CoverPlate	1



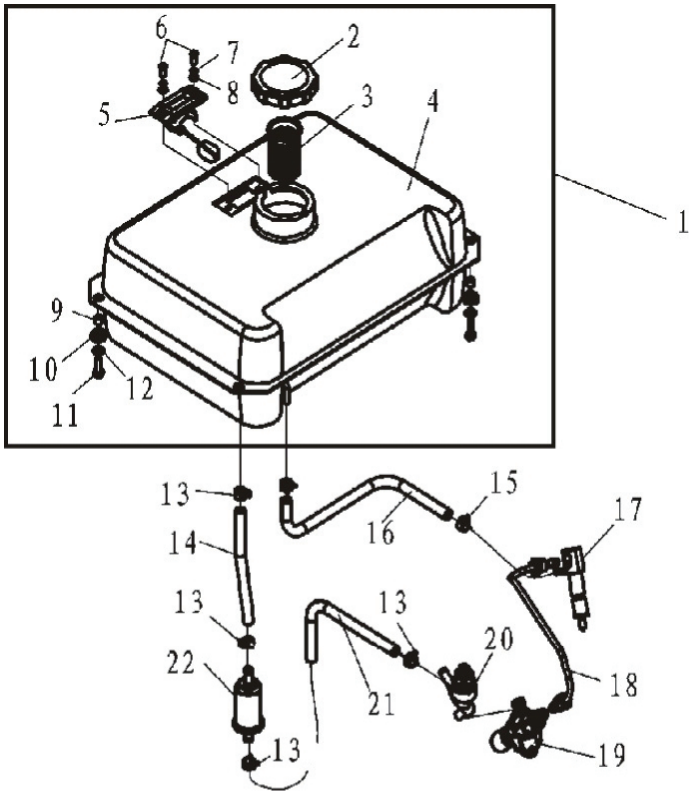
No.	Part Number	Part Description	Qty
1	6700-04100	RadiatingPlate	1
2	GB/T5783-2000	Bolt.M6x16	17
3	GB/T93-1987	ElasticWasher 6	17
4	GB/T96-1985	BigGasket 6	11
5	6700-04200	LeftSidePlateWeldment	1



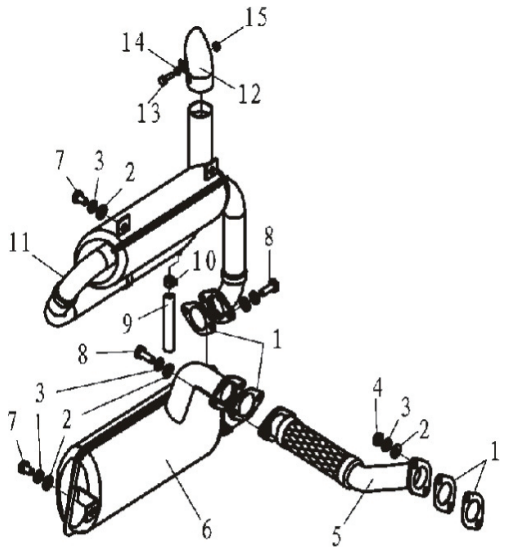
No.	Part Number	Part Description	Qty
1	6700Q-02000	6700 Alternator Assembly,Single Phase	1
	7500Q-02000	7500 Alternator Assembly,Single Phase	1
	8500Q-02000	8500 Alternator Assembly,Single Phase	1
	6700Q-3-02001	6700 Alternator Assembly,Three Phase 380T	1
	7500Q-3-02001	7500 Alternator Assembly,Three Phase 380T	1
	8500Q-3-02001	8500 Alternator Assembly,Three Phase 380T	1
	6700Q-3-02002	6700 Alternator Assembly,Three Phase 220T	1
	7500Q-3-02002	7500 Alternator Assembly,Three Phase 220T	1
	8500Q-3-02002	8500 Alternator Assembly,Three Phase 220T	1
2	6700-02001	Front Cover ofMotor	1
3	GB/T5783-2000	BoltM8x30	4
4	GB/5786-2000	ScrewM5x12	7
5	6700-02002	MotorFan	1
6	6700-02100	Rotator 6700,Single Phase	1
	7500-02100	Rotator 7500,Single Phase	1
	8500-02100	Rotator 8500,Single Phase	1
7	6204DU	Clip	1
8	6700-02003	Gasket	1
9	6700-02004	Bolt (LockingRot or)	1
10	6700-02200	Stator 6700,single Phase	1
	7500-02200	Stator 7500,single Phase	1
	8500-02200	Stator 8500,single Phase	1
	6700-3-02201	Stator 6700,Three Phase 220/380V	1
	7500-3-02201	Stator 7500,Three Phase 220/380V	1
	8500-3-02201	Stator 8500,Three Phase 220/380V	1
	6700-3-02202	Stator 6700,Three Phase 127/220V	1
	7500-3-02202	Stator 7500,Three Phase 127/220V	1
	8500-3-02202	Stator 8500,Three Phase 127/220V	1
11	GB/810-1988	Round NutM5	2
12	GB/T5783-2000	BoltM 5(Locking Stator)	2
13	GB/T5783-2000	BoltM 6(Locking front Cover)	4
14	6700-02002	Rear Cover of Alternator	1
15	D104	Carbon Brush	1
16	GB/5786-2000	ScrewM5x14	2
17	6700-02100	AirGuide Cover ofMotorWeldm ent	1
	8500-02100	AirGuide Cover ofMotorWeldm ent	1



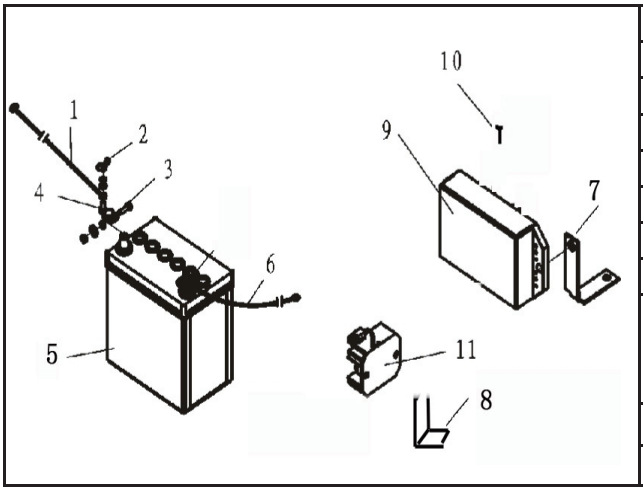
No.	Part Number	Part Description	Qty
1	GB/62-1988	Nut M6	2
2	6700-08002	PressurePlate ofBatteryer 6	1
3	6700-08001	Fastenrod ofBattery	2
4	6700-08004	BasePlate ofBattery	1
5	GB/T5783-2000	Bolt M6x20	13
6	6700-03001	SupportPlate ofBattery	1
7	6700-03200	ChassisWeldment	1
8	6700-03002	TailstockAir Hole of Motor	1
9	GB/T93-1987	ElasticWasher 5	6
10	GB/T5783-2000	Bolt M5x12	6
11	GB/T5789-2000	Bolt M6x12	1
12	GB/T5783-2000	Bolt M6x20	4
13	GB/T93-1987	ElasticWash	4
14	GB/T97.1-2002	FlatGasket 6	4
15	6700-03004	Castor	2
16	GB/T97.1-2002	FlatGasket 10	14
17	GB/T93-1987	ElasticWashers 10	14
18	GB/T6170-2000	Nut M10	14
19	6700-07000	DampingBlock	4
20	6700-03100	Weldment ofFrameBaseseat 6700,7500	1
	8500-03100	Weldment ofFrameBaseseat,8500	1
21	GB/T5783-2000	Bolt M10x45	6
22	6700-03005	Bracket of Heat InsulationBoxWeldment	1
23	6700-03006	LowerBody of Heat InsulationBoxWeldmer	1
24	6700-03007	CoverPlate of Heat InsulationBox	1
25	GB/T6170-2000	Nut M6	2
26	GB/T818-2000	BoltScrew M6x12	6



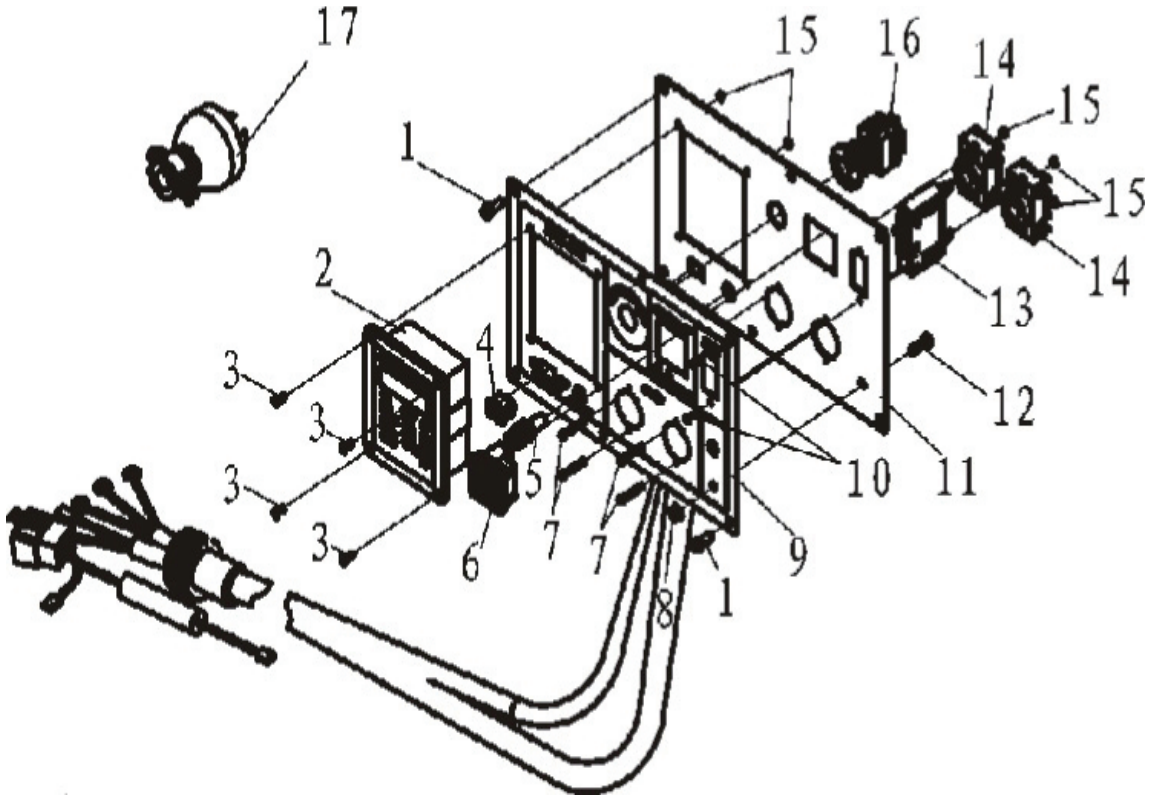
No.	Part Number	Part Description	Qty
1	6700-07000	FuelTank	1
2	6700-07200	FuelTank Cover	1
3	6700-07001	FilterScreen ofF illing	1
4	6700-07100	FuelTankWeldment	1
5	6700-07300	Oil Indicator	1
6	GB/T818-2000	Screw.M5x12	2
7	GB/T93-1987	ElasticWasher 5	2
8	GB/T97.1-2000	FlatGasket 5	2
9	6700-07002	Sheath	4
10	6700-07003	DampingSheath	4
11	GB/T5783-2000	Bolt.M6x30	4
12	GB/T97.1-2000	FlatGasket 6	4
13	13 Clip	Clip I	4
14	KDF6700-07004	Fuel DeliveryPipe I	1
15	9 Clip	Clip II	2
16	6700-07005	Oil ReturnPipe	1
17	186FA-12000	Nozzle 6700,7500,8500	1
18	186FA-10500A	HighPressureFuelPipe	1
19	186FA-13000	Fuel InjectionPump Unit6700,7500,8500	1
20	186FA-13000A	Fuel ControlValve Unit	1
21	6700-07006	Fuel DeliveryPipe II	1
22	6700-07400	FuelFilter	1



1	K	Exhaust Pipe Washer6700 、 7500	4
	192F-02015	Exhaust Pipe Washer8500	4
2	GB/T97.1-2000	Flat Gasket 8	9
3	GB/T93-1987	Elastic Washer8	9
4	GB/T6170-2000	Nut M8	2
5	6700-08100	Exhaust Pipe Unit6700 、 7500	1
	8500-08100	Exhaust Pipe Unit8500	1
6	6700-08200	Silent GeneratorMuf fler Assembly	1
11	6700-08300		1
7	GB/T5783-2000	Bolt.M8x16	3
8	GB/T5783-2000	Bolt.M8x30	4
9	6700-08001	Outlet Tube of Tail Air Particle	1
10	φ13 Clip	Clip I	1
12	6700-08400	Return Outlet of Tail Air W eldment	1
13	GB/T5783-2000	Bolt.M630	1
14	GB/T97.1-2000	Flat Gasket 6	1
15	GB/T6170-2000	Nut M6	1



1	6700-10001	Battery Positive Wiring (Red)	1
2	GB/62-1988	Wing Nut M6	2
3	GB/T5783-2000	Bolt M6X25	2
4	6700-10002	Battery Positive Wiring Clip	1
5	12V 36Ah	12V36AH Battery	1
6	6700-10003	Battery Ground Wire (Black)	1
7	6700-10004	AVR Bracket	1
8	6700-10005	Bracket ofRegulator	1
9	6700-10006	6700,7500,8500 AVR(Single Phase)	1
	6700-3-10006	6700,7500,8500AVR(Three Phase)	1
	6700-3D-10006	6700,7500,8500 3D AVR	6
10	GB/T5789-2000	Bolt M6X20	1
11	186F-12100	Charging Adjustor	1



No.	Part Number	Part Description	Qty
1	GB/T818-2000	Screw M6x12	6
2	CP001	Digital ControlPanel	1
3	GB/T819.1-2000	Screw M4x12	4
4	SW01000	BoatshapedSwitch	1
5	ACV02001	ACVoltmeter	1
6	DCS03001	DCSocket	1
7	GB/T818-2000	Screw M4x30	4
8	GB/T6177.1-2000	Nut.M6	1
9	PL01	PVC Label	1
10	GB/T818-2000	Screw.M4x10	2
11	6700-09001	ControlPanel	1
12	GB/T5783-2000	Bolt M4x20	8
13	SW01001	Breaker	1
14	SC02010-1	Socket	2
15	GB/T6170-2000	Nut M4	8
16	EM1001	Quick-StopButton	1
17	SP02010-2	Plug	2