

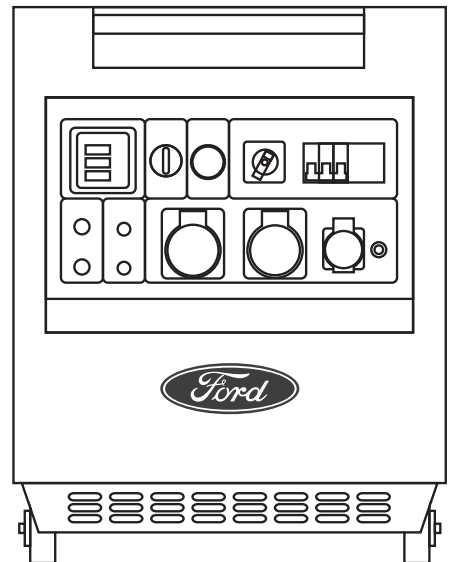
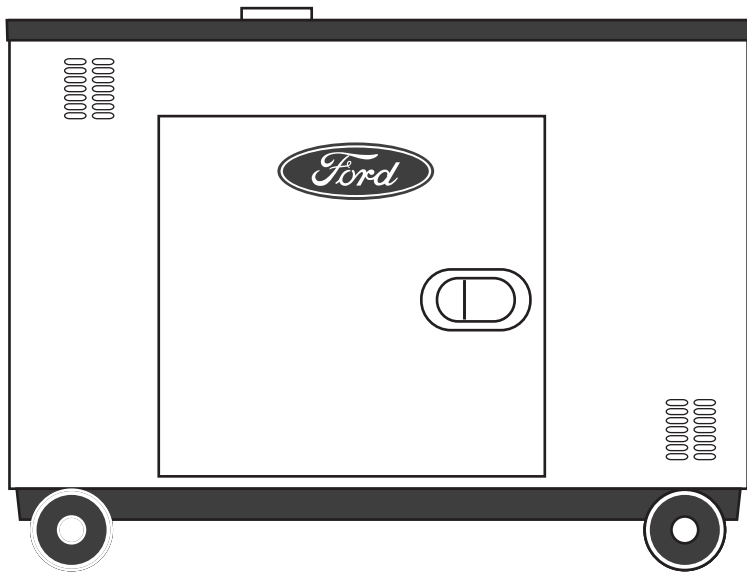


MODEL#: FDT9200SE (FD7200S)

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# Diesel Generator OPERATOR'S MANUAL





## 1. SAFETY INFORMATION

In order to ensure a safety use of the generator please follow the next safety instructions:

1. Check the outside of the generator in order to detect any apparent trouble.
2. Check the screws and nuts, they could loosen because of the equipment vibration.
3. The temperature range to use this equipment is between + 5 ° C and 40 ° C.
4. The use of good quality oil and diesel is a must.
5. All elements must be cleaned regularly.
6. Storage should be in a dry place. Frost damage permanently your group. Drain your machine completely before storing in a dry and warm place.
7. The air filter must be checked and cleaned regularly.
8. Make sure all filters are cleaned regularly.
9. Exhaust fumes contain carbon monoxide. This gas is odorless and colorless and is very dangerous. NEVER USE THE EQUIPMENT IN A CLOSED OR POORLY VENTILATED AREA.
10. The exhaust temperature is high during equipment's use and remains hot even after turning off the generator. Be careful not to touch the hot exhaust and wait for the machine to cool before moving it.
11. The repairs of the generator should be done by qualified and authorized personnel for this purpose.
12. Do not smoke or allow flames or sparks during operation of the generator or during filling the fuel tank. Do not store the generator near flammable material to avoid danger of explosion.
13. Store the generator in a well ventilated area.
14. Never place the generator in an inclined or vertical position to prevent fuel leakage and damage to equipment.

### ATTENTION

The warranty is automatically voided if the process described to start and stop the group is not followed.

Not following the process described can damage the equipment.

ALWAYS control the level of oil and fuel as well as its maintenance before each use.

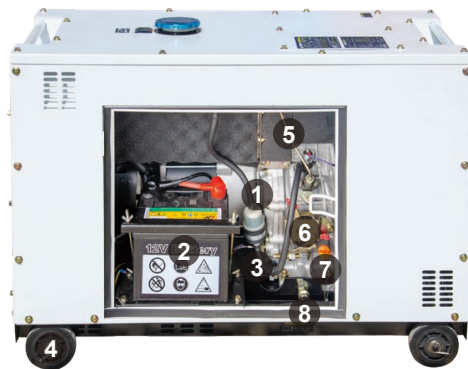
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## 1. Technical data

Model		FDT9200SE (FD7200S)
Frequency	Hz	50
Rated Power	kva	6 / 7.5 kva
Max. Power	kva	6.3 / 7.9 kva
Voltage	V	230 / 400
Current	A	25.2 / 11.4
Plugs		16A & 32A
Display		LED6
Fuel tank capacity	L	13
Running time @75% load	H	7
Sound level @ 7m	dBA	72
DC output	V/A	12 / 8.3
Battery	V/Ah	12 / 30
<b>ENGINE</b>		<b>D500E</b>
Engine type		Diesel
Power	hp	12
Start		Electric
Displacement	CC	498
Oil Capacity	L	1.75
<b>ALTERNATOR</b>		<b>AL6-T</b>
Power	Kw	6
Power Factor		1 / 0.8
Voltage Regulation		Brush / AVR
<b>DIMENSIONS &amp; WEIGHT</b>		
Net Weight	Kg	162
Gross Weight	Kg	170
Machine size	mm	920×520×720
Dimensions Package	mm	960×560×760
FCL 20'/40'HQ		48/144

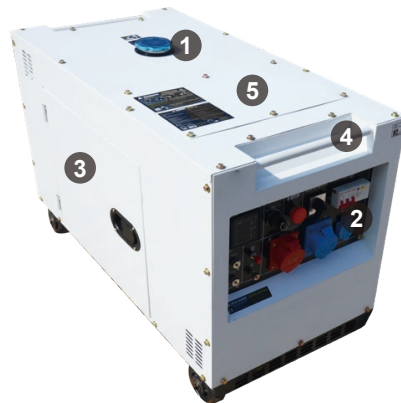
## 2. COMPONENTS

### 2.1 General view



- 1 Fuel filter
- 2 Battery 12V 36Ah
- 3 Oil filter
- 4 Transport wheels
- 5 Injection pump
- 6 Starter lever
- 7 Oil refill / Oil dipstick
- 8 Oil drain

### 2.2 Side view



- 1 Diesel tank
- 2 Control panel
- 3 Engine access
- 4 Carrying handle
- 5 Air filter

### 2.3 Control panel LED



- 1 LED6 display
- 2 Start key
- 3 Emergency stop
- 4 Transfer switch
- 5 Breaker
- 6 AUTO socket
- 7 ATS socket
- 8 Pre-heater button
- 9 Earth terminal
- 10 400V 16A socket
- 11 230V 32A socket
- 12 230V 16A socket
- 13 Overload protector

### 3. First startup

#### 3.1. Preparation before starting up



Fig. 1



Fig. 2

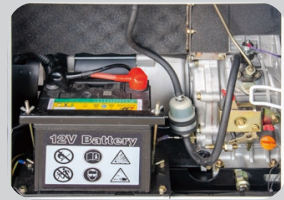


Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

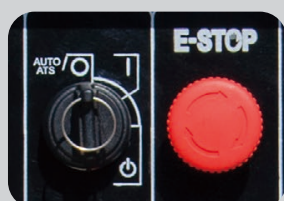


Fig. 8

Put oil on the motor (Fig.1) using 15W40 oil, 1.6Lt maximum, check the level with the dipstick without screwing it in, the level must remain the the maximum line (without exceeding the upper mark).

Fill the fuel tank with diesel (Fig 2), with 17 liters (depending on the version).

Connect the positive (red wire) to the battery, insert it back into its housing, pay attention not to touch the positive to the body or it could blow the fuse. Tape the positive terminal if necessary.

Be sure to remove the lateral battery caps. (Fig 3)

#### 3.2 Starting the Generator

Turn the speed lever to the "RUN" position. (Fig 4)

It is possible that the first time you need to purge air from circuit by removing the rubber tube indicated (Fig.5), letting flow the diesel. When no air, put back in place, and do not touch the pressure tubes. Repeat if necessary.

Insert the key into the bowler and proceed to startup. Turn right to the "ON" position to give contact. Turn the key to the START position to start the engine (Fig 6).

Once the generator is running, make it work for 3 minutes and make sure the differential is at the "OFF" position (down). Then you can connect the load and put the differential at the "ON" position.

RESPECT THE GENERATOR'S RATED POWER. IF THERE'S AN OVERLOAD THE BREAKER WILL JUMP BETWEEN 3 AND 10 SECONDS.

WHEN THE GENERATOR IS RUNNING THE DIGITAL DISPLAY LED 5 WILL SHOW YOU THE VOLTAGE, FREQUENCY, THE HOURS OF USE AND THE APPLIED POWER.

#### 3.3 Stopping the generator

Turn the differential to the "OFF" position (down, Fig 7) and disconnect the equipment connected to the control panel.  
(If you miss this step, you may damage the voltage regulator AVR).

To stop the engine, turn the key ) to "OFF" position.

## 4. Engine maintenance

### 4.1 First oil change after 20 hours

Place a recipient underneath to catch the oil.

Loosen the drain screw.

Drain the engine oil.

Fit and tighten the drain screw again.

Replace the gasket screw at each change to avoid losses.

Fill the engine with new oil 15W40 (1.6Lt).

NEXT OIL CHANGES EVERY 100 HOURS OF OPERATION.



Fig 9



Fig 10



Fig 11

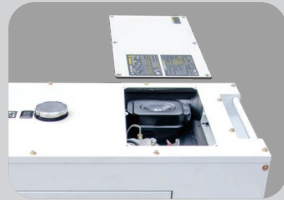


Fig 12



Fig 13



Fig 14

### 4.2 Oil filter

Remove and clean the oil filter on every oil change by changing the gasket to prevent leakage.

If there are impurities in the filter, it can block the oil sensor stopping the start of the generator.

REPLACE THE OIL FILTER EVERY 200 HOURS.

### 4.3 Air filter

Clean the air filter with compressed air at each oil change and replace it every 200 hours.

WARNING: DO NOT START THE ENGINE WITHOUT AIR FILTER.

### 4.4 Diesel filter

Replace every 100 hours (Fig 14).

The filter is located inside the fuel tank or in the fuel pipe (depending on model).

It is above the battery to replace it place a container, as there is no stopcock to prevent the escape of diesel.

If the fuel used is dirtier than normal, replace earlier than indicated.



## 5. General maintenance

Never encline the generator during transportation without emptying the oil pan.

Failure to observe this instruction may cause severe damage to the engine .

We recommend cleaning the equipment after use and before a storage.

Visually check the external components.

Check the screws and nuts due to equipment vibration could loosen.

### 5.1 Prolonged storage

To keep the equipment in perfect conditions we recommend the following steps:

- Drain the fuel tank.
- Drain the engine oil.
- Pull the starter until you feel some resistance (allowing the valves to close in order to prevent moisture and corrosion of the cylinder and the valve regulation)
- After a prolonged storage, the starting process is identical to first start up.

#### ATTENTION

The warranty is automatically voided if the process described to start and stop the group is not followed.

Not following the process described can damage the equipment.

ALWAYS control the level of oil and fuel as well as its maintenance before each use.

## 6. TROUBLESHOOTING

Causes		Remedies
<b>No start of the engine</b>	Insufficient fuel	Fill in the fuel
	Air in fuel circuit	Purge air in fuel circuit
	No spray on injector or a little quantity	Repair and adjust the injector
	Speed control rod not at "RUN" position	Set control rod to "RUN" position
	Check lube oil lever	The level between upper mark "H" and lower mark "L"
	Dirty on the nozzle	Clean the nozzle
	No electricity in battery	Charge or change the battery
<b>No output of generator</b>	Not turn on the switch	Turn to "CLOSE" position
	Worse contact of the socket	Adjust the socket
	Not reach rated speed of the engine	According the stipulation
<b>Voltage too low</b>	Not reach rated speed of the engine	Set speed control rod to operation position.
	Check AVR	Adjust the resistance clockwise
<b>Automatic stop after a certain time of operation</b>	(1) lack of the fuel (2) lack of lube oil (3) voltage too low/too high (4) frequency too low/too high (5) over-current	Repair according to relative alarming of control panel



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