

FL-540B

**Liquid Transfer Pump Operating Instruction** 

# **Specifics**

FL-540B				
Input Voltage	110-120V	Power	330 W	
Frequency	60Hz	AMPS	3.2A	
Connection	1"+3/4"	Flow Rate	10.5 GPM	
Working Pressure	22 psi	Max Head	36 ft	



# **OPERATION MANUAL**

## 1.INSPECTION

-After unpacking the pump, please check if it has been damaged during transport. If so, please contact *TDRFORCE* online services at the first time.

### 2.INSTALLATION

- -Make sure that the main voltage corresponds to the voltage specified on the motor rating plate.
- -Place the pump as near as possible to the suction tank.
- -Do not submit the pump body to mechanical stress.
- -The pump must be sheltered from weather (sun-rain-wind-snow-chill).
- -The motor must be absolutely grounded before any other operation.
- -The suction pipe diameter must always be bigger than the suction port. Always fit a foot valve with strainer on the suction pipe. Both suction and delivery pipe must be well fastened.

### 3.STARTING THE PUMP

- -Check that the pump does not run out of the operating data.
- -For the proper functioning of the system, allow a 20-minute stop for every 20 minutes of dispensing. Operation of the pump without dispensing is only admitted for periods of no longer than 3 minutes.
- -The pump could be only used in fresh water & urea circulating and transferring.
- -We recommend that the pump remains switched off whenever the system is not in use.

### 4.MAINTENANCE

- -The dispensing system was designed and built to require a minimal amount of maintenance.
- -Before carrying out any maintenance work, disconnect the dispensing system from any electrical and hydraulic power source.
- -During maintenance, the use of personal protective equipment (PPE) is compulsory.
- -Whenever there is risk of frost, empty the plumb system.
- -Check that the pipe connections are not loose to prevent any leaks.
- -Check and keep the filter installed on the suction line clean. Check the pump body and keep it clean and free of any impurities.
- -Check that the electrical supply cables are in good condition.

# POSSIBLE WORKING DEFECTS

	PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
		Lack of electric power	Check the electrical connections
			and the safety systems.
	THE MOTOR IS NOT	Rotor jammed	Check for possible damage
	TURNING		or obstruction of the rotating
			components.
		Motor problems	Contact the Service Department
	THE MOTOR TURNS	Low voltage in the electric	Bring the voltage back within the
	SLOWLY WHEN	power line	anticipated limits
	STARTING		
		Low level in the suction tank	Refill the tank
		Foot valve blocked	Clean and/or replace the valve
		Filter clogged	Clean the filter
		Excessive suction pressure	Lower the pump with respect to
			the level of the tank or increase
			the cross-section of the tubing
		High loss of head in the delivery	Use shorter tubing or of greater
		circuit (working with the by-pass	diameter
		open)	
		By-pass valve blocked	Contact the Service Department
		Air entering the pump or the	Check the seals of the
		suction tubing	connections
.\ '	LOW OR NO FLOW	A narrowing in the suction	Use tubing suitable for working
7	RATE	tubing	under suction pressure
7	RAIL	Low rotation speed	Check the voltage at the pump.
			Adjust the voltage and/or use
			cables of greater cross-section
		The suction tubing is resting on	Modify tubing properly.
		the bottom of the tank	
		Freezing of the pump or motor.	Thaw the pump and check
		Control (1997)	for damage. Starting a frozen
			pump can cause damage to the
		X	motor and to the pump itself
		Looks in the numn outlet nine	
		Leaks in the pump outlet pipe.	Check the seal at the pipe's
			connections and inspect the
		A	pipe for possible damage.
		Cavitation occurring	Reduce suction pressure
	INCREASED PUMP	Irregular functioning of the by-	Dispense until the air is purged
	NOISE	pass	from the by-pass system.
		Presence of air in the liquid to	Verify the suction connections
	LEAKAGEEDOMETICE	be pumped.	
		Pump damage	Contact the Service Department
	PUMP BODY		
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# **Warranty Card**

Customer contact, please keep it properly.

### Dear customer:

Thank you for choosing products of *TDRFORCE*. In order to provide you with more satisfactory service and better protect your rights, please read this regulation carefully and keep the warranty card properly.

## Regulations:

- 1.For any quality issue of *TDRFORCE* product within 180 days after sale, we offer no-hassel return service for our customers;
- 2.Please contact our Amazon online customer service or <u>sales04@tdrshine.com</u> before return;
- 3. Valid evidence of purchase will be essential such as order ID or warranty card;
- 4. Valid evidence showing product problems shall be provided in the contact such as videos, photos or detailed descriptions.
- 5. Warranty card shall be filled out and attached with the return product.

### Please notice:

The following situations are not applicable to our no-hassel return policy.

- 1. Product damage caused by installation or use not in accordance with the instruction manual;
- 2. Product beyond 180 days after sale;
- 3. Product return with no reason;
- 4. Product damage caused by self-disassembly or sabotage;
- 5. Product damage caused by force majeure such as earthquakes, fires, etc.

Buyer's Name:	
Tele:	
E-mail:	
Order ID:	
Return Address:	
Product Problem Description:	* 0,
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