

**WULI**



**物理農業機械股份有限公司**

**WULI AGRICULTURE MACHINE CO., LTD.**

動力噴霧機、高壓洗淨機、微霧系統專業設計製造

## **PORTABLE MISTING FAN OPERATION MANUAL**

## **微 霧 風 扇 操 作 手 冊**

### **MODEL**

**WMF-10005-5F**

**WMF-10005-6F**



感謝您購買物理產品，使用前請詳閱本說明

Thank you for choosing our product.

Please read the operation manual before use.

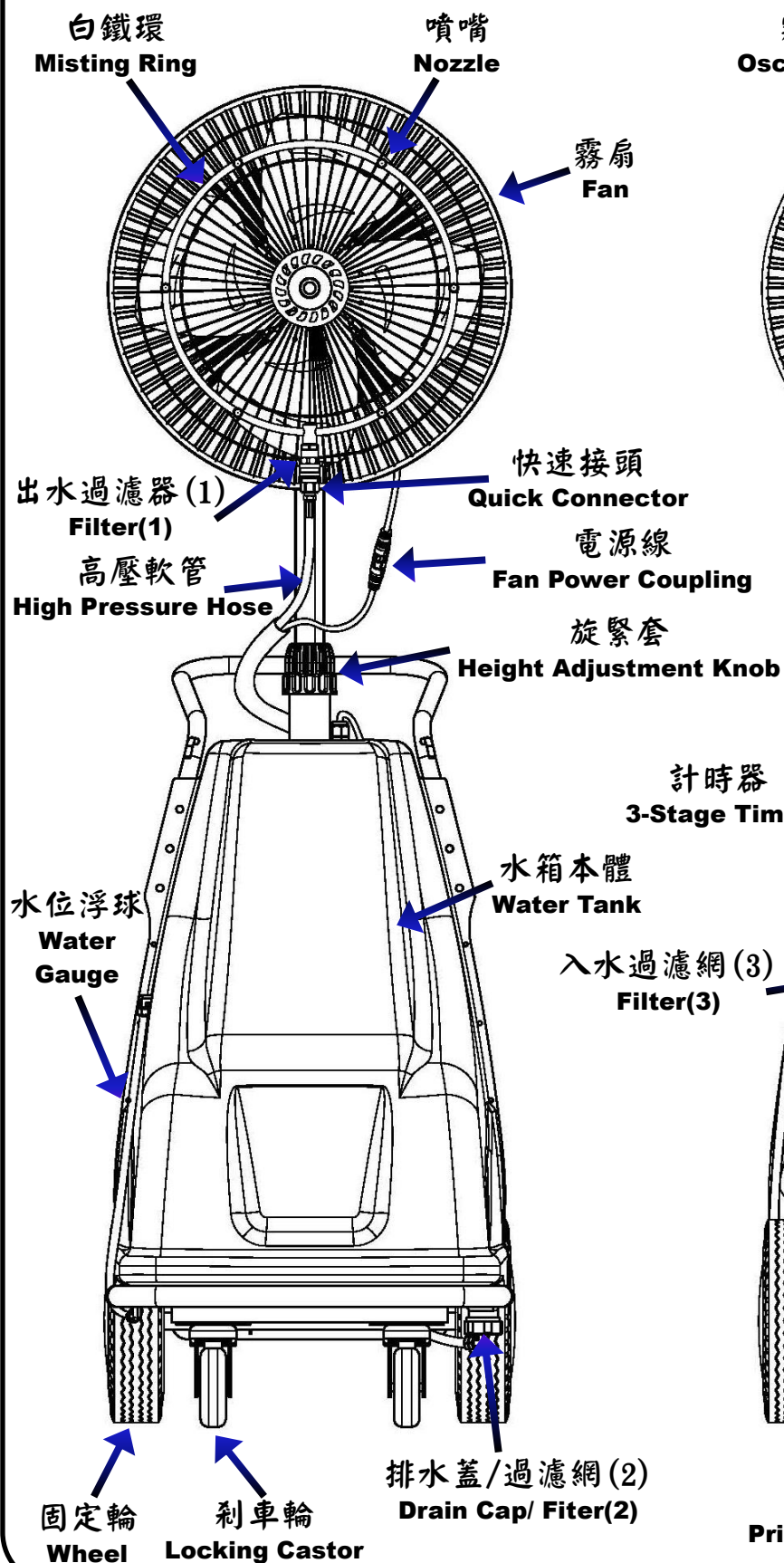
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**W U L I   A G R I C U L T U R E   M A C H I N E   C O . ,   L T D .**

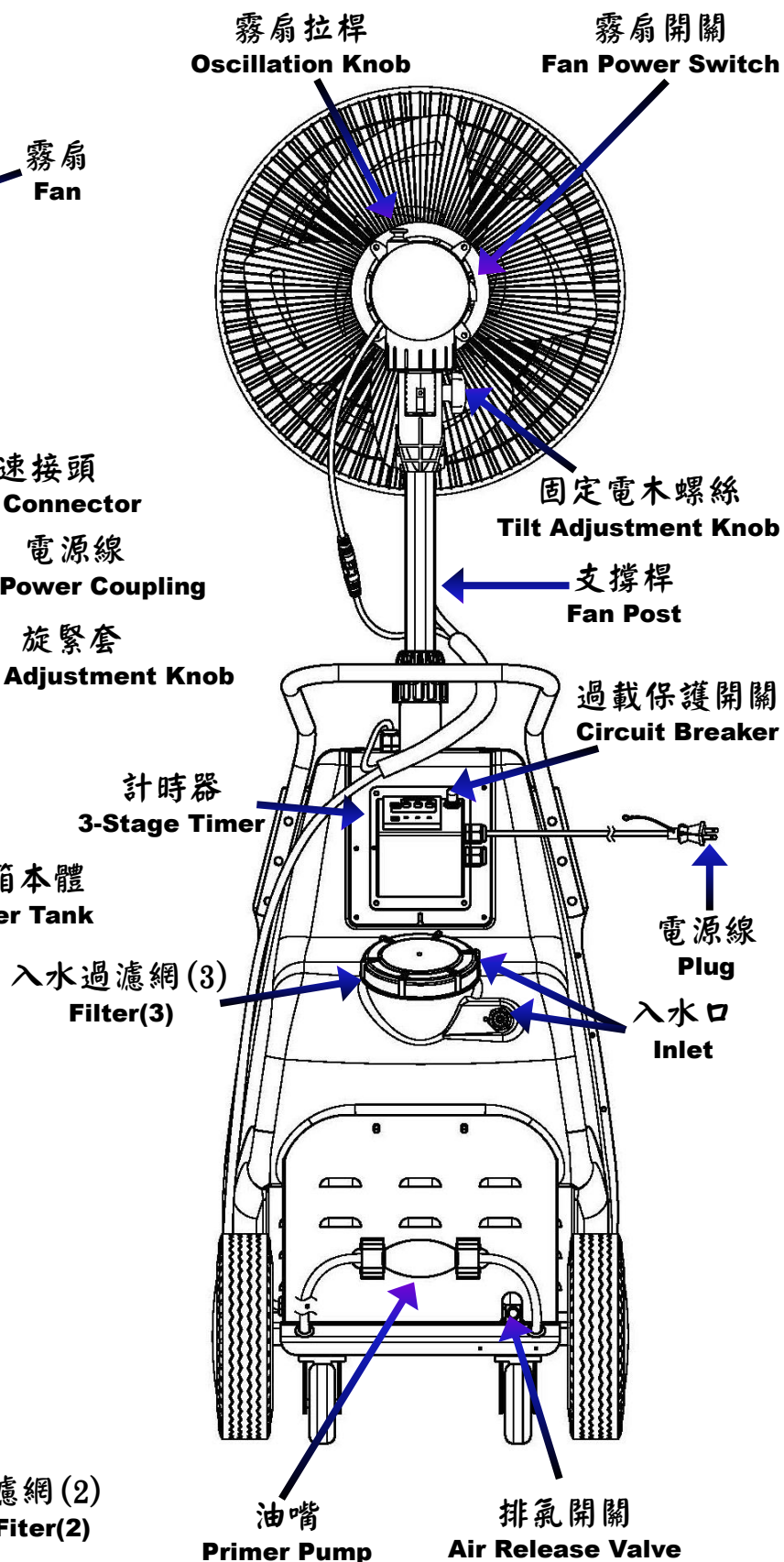
No. 499, Gem-Chou Rd., Chi-Fong Village, Wufeng Dist., Taichung City 41350, Taiwan (R.O.C.)

# 外觀部品名稱 Overview

【正視圖】  
[FRONT VIEW]



【後視圖】  
[BACK VIEW]



# 安全須知



## 注意

- 使用前請詳閱本操作手冊和安全注意事項。
- 請勿讓兒童操作本機器。霧扇運轉時，請勿讓兒童靠近。
- 為避免短路或漏電引發危險，請務必將本機器放置於乾燥平坦處。
- 結凍的氣候會使機械故障，所以在會結凍的地區使用完畢後，請務必將本機器與管路內的水排空。
- 請確保霧扇正確接地。
- 請勿在霧扇上噴灑易燃或腐蝕性液體。
- 僅使用自來水或清水作為進水水源。
- 請避免掉落或受到強烈撞擊。



## 警告

- 本機器的電源需要連接到規格為 3A 的無保險絲斷路器 (NFB)。
- 當過載保護開關跳脫時，須注意電壓是否正確，並注意電流是否過載。
- 電源電壓和頻率必須與本機器指定的電壓和頻率相符。
- 任何檢修、保養前，請務必將霧扇開關切換至 OFF，關閉泵浦電源，電源線插頭拔除，避免發生危險。
- 本機器必須配合水操作使用，缺水、無水運轉將造成機械嚴重損壞。
- 使用霧扇前，請先安裝前後網。
- 當發現微霧風扇變形或有異常氣味時，請停止使用。
- 請勿自行拆卸或改造機器，否則可能會導致故障、火災或觸電。
- 注意不要讓異物進入霧扇、泵浦或水箱，否則可能會導致故障或事故。



## 危險

- 為減少燙傷風險，運轉時請勿觸摸泵浦的表面。
- 為避免觸電危險，請務必使用接地的電源插頭並插入正確接地的插座。請勿從電源插頭上移除接地插腳或接地線。
- 微霧風扇運轉時，請勿觸摸旋轉部件，以免受傷。操作時請勿將手指放入前/後網。
- 為了安全起見，每次使用後請關閉霧扇，拔下電源插頭並清空水箱。
- 請勿用濕手觸摸泵浦或馬達。
- 請勿在下雨天或雷雨天操作霧扇。
- 本電氣產品不適合身體、感官、精神能力、經驗或知識有限的使用者（包括兒童）使用，除非他們在負責其安全的人員的監督或指導下安全使用。

# 使用說明

## 一、使用前置作業

1. 將剎車輪固定，避免地面不平坦導致機器滑動或傾倒。移動霧扇前請確保剎車輪固定已鬆開。
2. 將霧扇妥善安裝於水箱本體上。(霧扇安裝說明請參閱第 5 頁)
3. 將進水管確實鎖緊在水龍頭上，防止漏水。水龍頭進水壓力須在  $7\text{kgf/cm}^2$  以下，避免損害機器。(水箱加水請參閱第二點)
4. 霧扇安裝完，才可插上電源線，以免發生觸電危險。電源啟動前，請確認電源供應的電壓、頻率是否符合本機器規格並確認水箱內儲水是否充足。
5. 在計時器上設定運轉和停止時間，按壓計時器啟動噴霧，開啟霧扇開關，調整風速的大小。(可程式計時器操作說明請參閱第 6 頁，調整霧扇說明請參閱第 7 頁。)
6. 初次運轉、無水自動停止或長期未使用時，請按壓排氣開關 15 秒，將泵浦內之空氣排除；直到正常出水後，關閉排氣開關，即可正常使用。(泵浦排氣請參閱第四點)



### 注意：

使用延長線不得超過 10M，且線徑需大於  $0.75\text{mm}^2$  以確保用電安全。

## 二、水箱加水

1. 請使用乾淨水源或自來水從後方入水口手動加水，或接水管直接進水。水位不可超過浮球位置，滿水位溢出，可能造成機械損壞。
2. 手動加水時需經過入水過濾網作初步淨水，請勿取出濾網，以延長機器使用壽命。
3. 加水時請勿濺溼馬達或其它電路設備。

## 三、使用完畢

1. 按住計時器上的 **停止** 5 秒即可停止噴霧。
2. 將霧扇開關轉到 0 停止扇葉運轉並關閉水源。
3. 打開底部的排水蓋，排空水箱。



## 四、泵浦排氣

使用霧扇之前，請務必先排氣。



步驟 1. 取下油嘴。

步驟 2 和 3 請同時進行。



步驟 2. 用一隻手按下排氣開關上的按鈕。

\* 按住按鈕，開始擠壓油嘴。

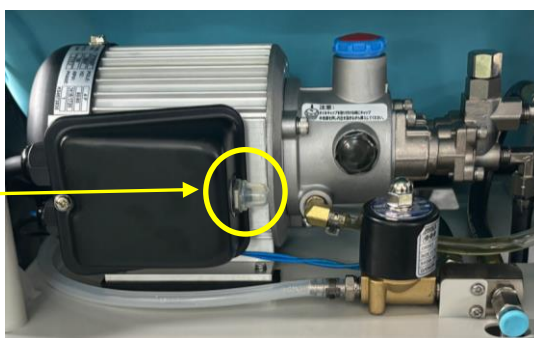
步驟 3. 反覆擠壓油嘴，直到水開始從排氣開關出口流出。

\*\*如果擠壓油嘴 30 秒或更長時間後排氣開關仍未出水，請檢查軟管是否阻塞或彎曲，然後重試。

## 安全防護部件說明

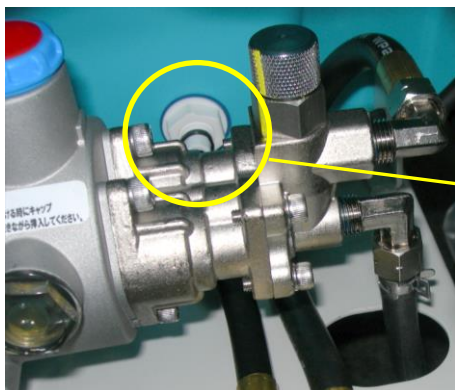
### 一、馬達過載保護開關

重啟馬達：如果白色後蓋內的按鈕彈出，則表示「過載保護開關跳脫」。請先拆下封口塞，按下按鈕，馬達就會開始運轉。



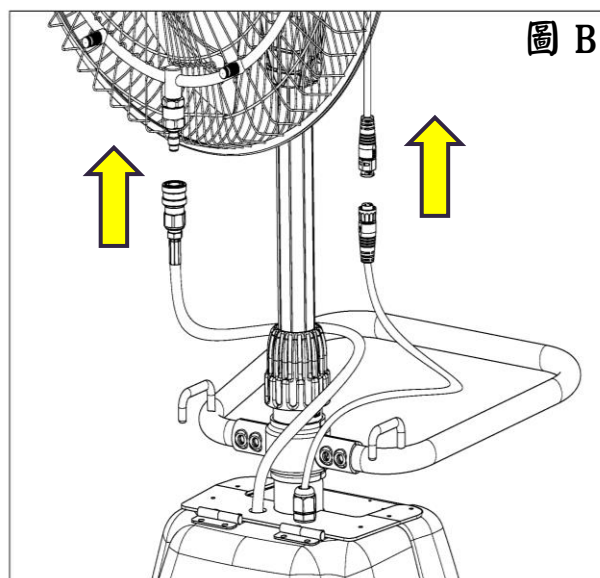
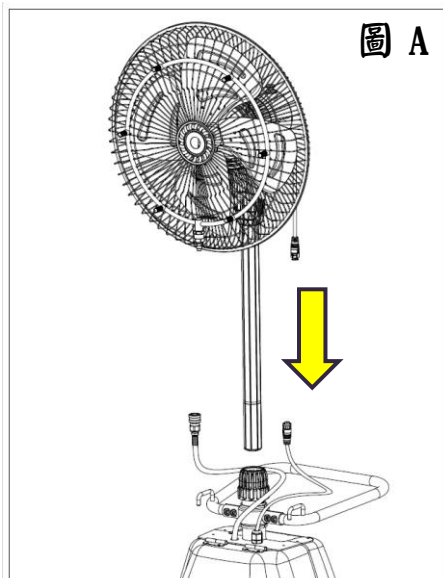
### 二、浮球開關

此無水保護是為了防止泵浦在沒有水的情況下運作。



# 霧扇安裝說明

1. 將霧扇插入機身 (圖 A)。
2. 將高壓軟管連接到白鐵環的快速接頭上 (圖 B & 圖 C)。

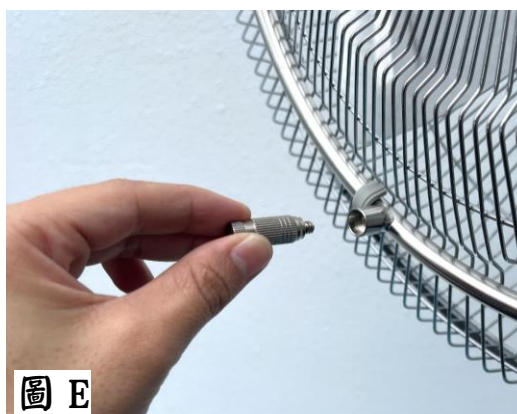


3. 連接主機電源線和霧扇電源線。(圖 B & 圖 D)

**注意! 勿以濕手或在電源線潮濕時連接電源線，以免造成觸電或漏電的危險。**



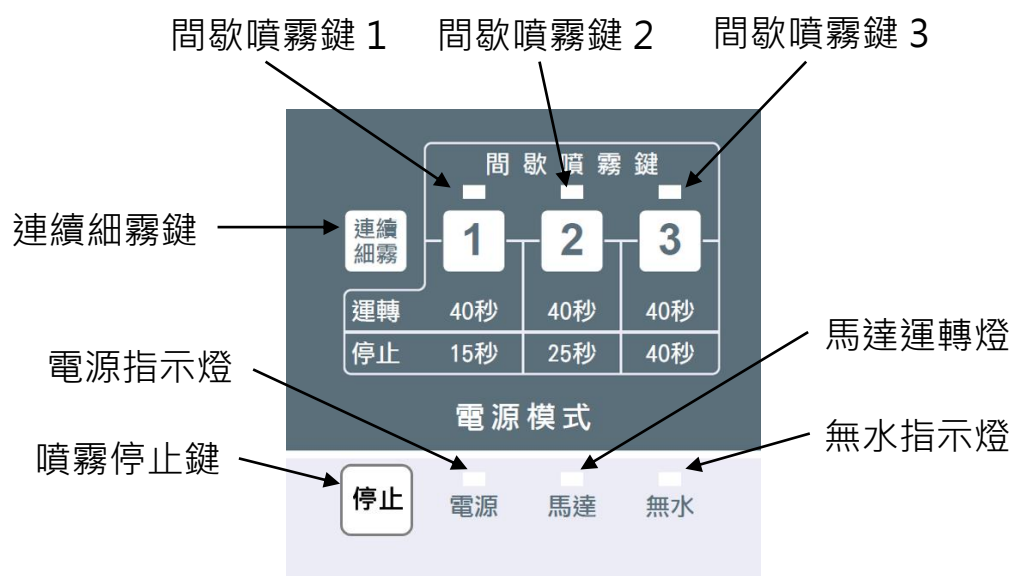
4. 將噴嘴鎖緊在白鐵環上 (圖 E)。須確實將噴嘴鎖緊於白鐵環上；若噴嘴安裝不當，將導致噴嘴無法出水或漏水。



**警告！**霧扇運轉過程中，請勿斷開向霧扇輸送水源的快速接頭。當噴嘴仍有壓力時，請勿旋開噴嘴。

# 可程式計時器操作說明

## 一、計時器面板介紹 (#AWL-4)



## 二、操作步驟

### 1. 手動控制模式：連續噴霧運作

- 開始噴霧：長按 **連續細霧** 持續 5 秒，馬達運轉燈會亮起，霧扇開始連續噴霧。
- 停止噴霧：按 **停止** 以停止噴霧。

### 2. 自動控制模式：間歇噴霧與停止運作

- 間歇噴霧鍵 1: 長按 **1** 持續 5 秒，馬達運轉燈會亮起，霧扇將開始依照設定時間反覆噴霧 40 秒、停止 15 秒運作。
- 間歇噴霧鍵 2: 長按 **2** 持續 5 秒，馬達運轉燈會亮起，霧扇將開始依照設定時間反覆噴霧 40 秒、停止 25 秒運作。
- 間歇噴霧鍵 3: 長按 **3** 持續 5 秒，馬達運轉燈會亮起，霧扇將開始依照設定時間反覆噴霧 40 秒、停止 40 秒運作。
- 停止噴霧：按 **停止** 以停止噴霧。

## 三、無水警告

- 無水指示燈亮起時，表示微霧風扇缺水，泵浦將會自動停止運作。在無水狀態下，微霧風扇無法運轉，請勿強制啟動。
- 請檢查水源並確保供水充足，屆時再重新啟動微霧風扇，以解除警告燈號。

※注意：切勿嘗試在沒有水的情況使用微霧風扇，因為這將對泵浦造成嚴重損壞。

# 調整霧扇說明

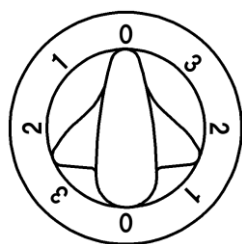
## 1. 霧扇拉桿

讓霧扇左右擺轉 (約 105°)

上拉	停止擺動
下壓	左右擺動

## 2. 霧扇開關

0	停止
1	弱風
2	中度
3	強風



## 3. 固定電木螺絲

鬆開螺絲後調整霧扇上下角度。

## 4. 旋緊套

調整霧扇高度

逆時針方向	調鬆
順時針方向	鎖緊

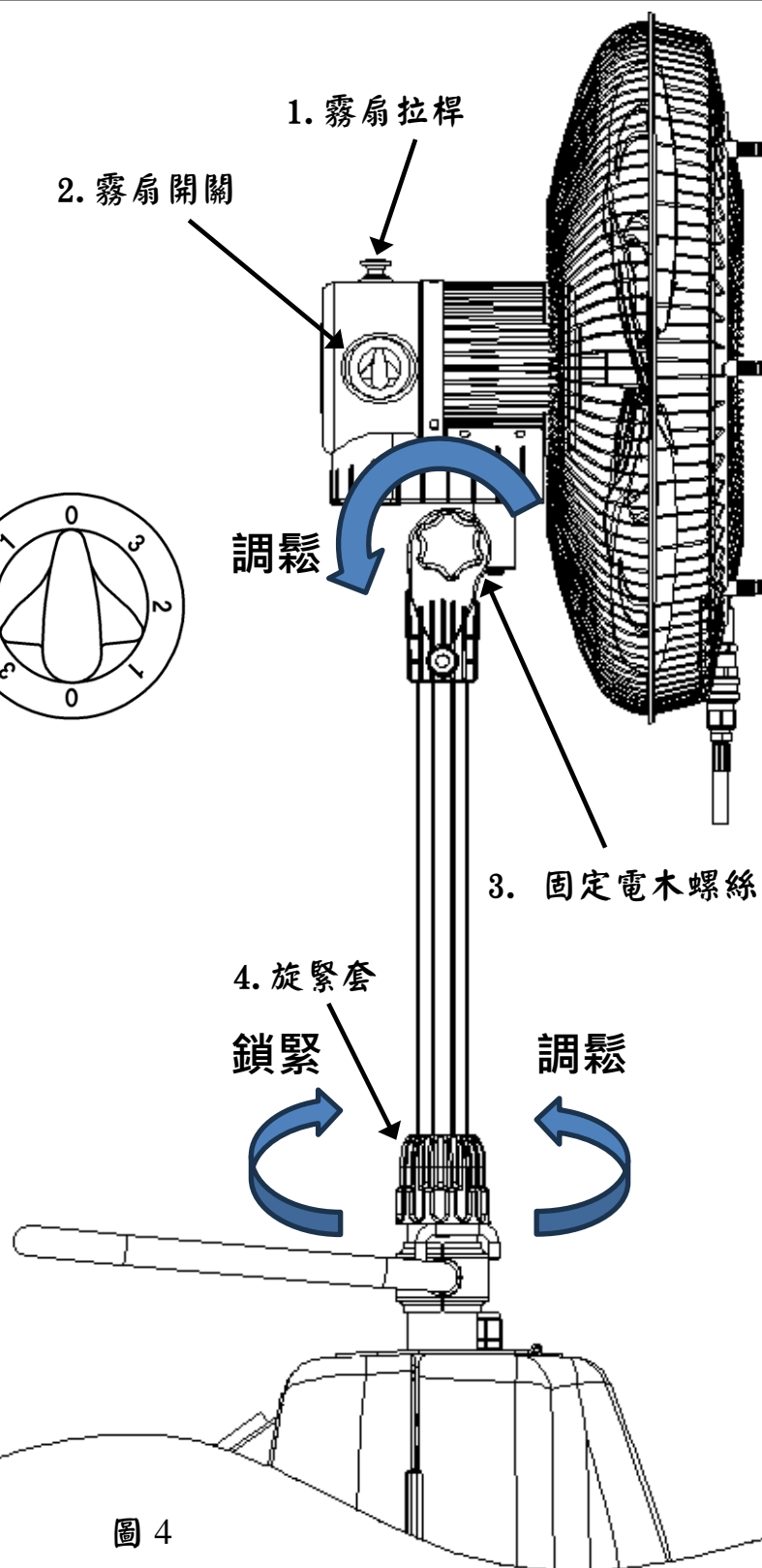
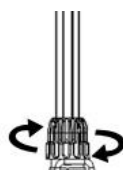
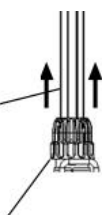
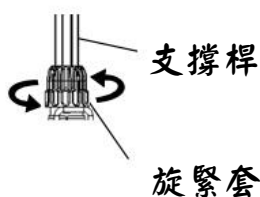


圖 1

圖 2

圖 3

圖 4





## 型號、規格及適用環境

型號	馬達馬力				泵浦吸水量	工作壓力
WMF-10005-5F	310W	50Hz	230V	1Φ	0.4 L/min	1000 psi
WMF-10005-6F	400W	60Hz	110V		0.5 L/min	

型號	空機重量	機身外觀尺寸 LxWxH
WMF-10005-5F	45 kg	740x525x1660~1865mm
WMF-10005-6F		

### 環境空氣溫度

微霧風扇能夠在預期的環境空氣溫度下正常運作。所有電氣設備的最低要求是在外殼（機櫃或箱子）外部的環境空氣溫度在 5°C 至 45°C 之間時正常運作。

### 溼度

當相對濕度不超過 85%、最高溫度為 +45°C 時，微霧風扇能夠正常運作。

### 海拔高度

此微霧風扇能夠在海拔 1000 公尺以下正常運轉。

### 運輸和儲存

在運輸或移動過程前，請將霧扇上半部從主體上拆下。

如果在不拆下霧扇上半部的情況下運輸或移動微霧風扇，可能會損壞風扇組件。

微霧風扇能夠承受，或應採取適當的預防措施來抵禦 -10°C 至 +55°C 範圍內的運輸和儲存溫度的影響。應採取適當的措施防止因潮濕、振動和衝擊造成的損壞。

注意：微霧風扇在低溫下容易損壞，包括 PVC 絕緣電纜。

### 報廢微霧風扇的處理

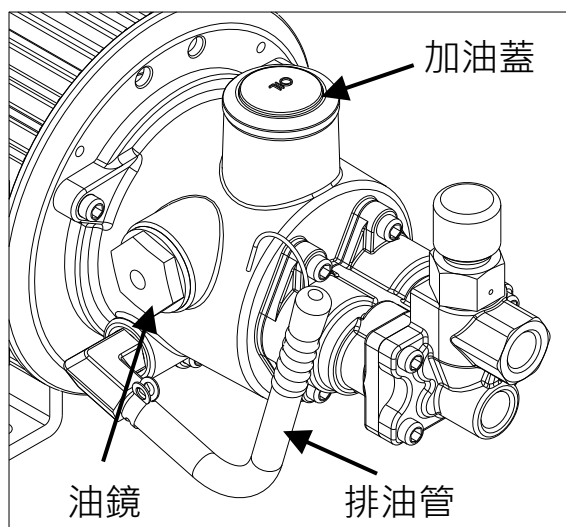
請遵守當地法規。

# 機器保養維護方法

## 一、例行維護時間表

部件名稱	維護內容	維護時機
泵浦	確認/更換油量	使用前確認機油品質、油量是否足夠
過濾器	清潔	每隔 15 天後
噴嘴	清潔	必要時或每隔 15 天後

## 二、泵浦機油更換



機油使用	SAE 30~40
更換油量	110 cc
更換時機	1. 首次使用 30~50 小時 2. 使用每隔 100~200 小時

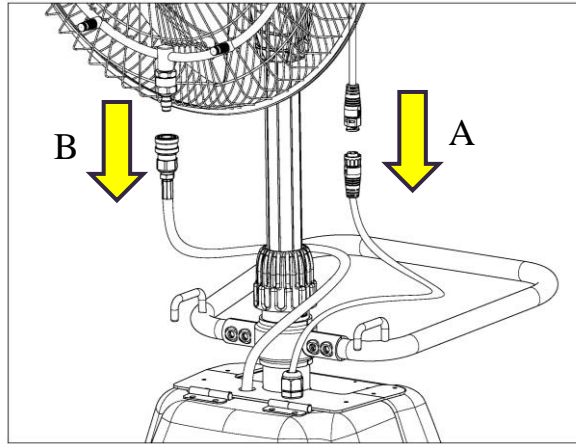
1. 打開加油蓋。
2. 卸下排油管，準備容器盛裝排流出來的廢機油；待排流完畢後，確實將排油管裝回。
3. 從注油口加入指定油量之新油。
4. 確認新油添加是否達到油鏡的中心點。
5. 確實蓋緊加油蓋。

### ⚠ 注意:

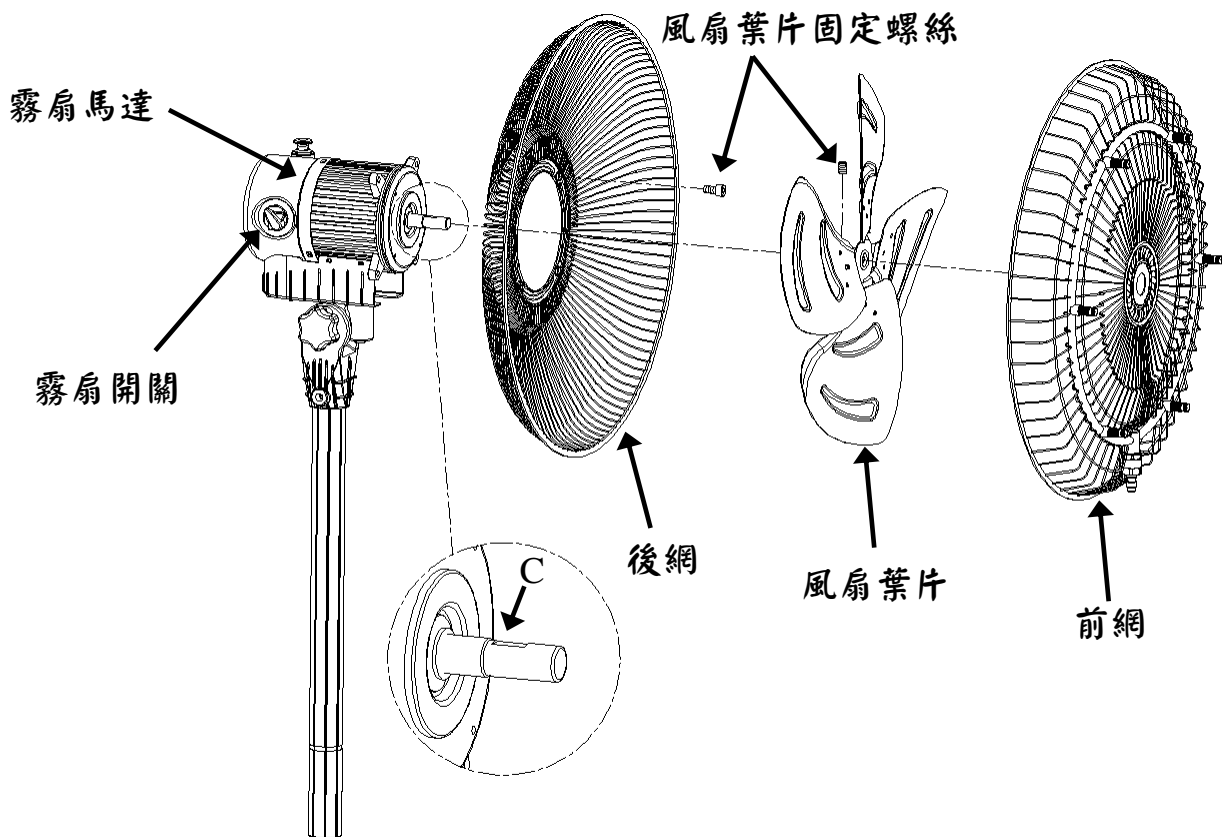
1. 機器剛運轉完畢時，內部機油過熱，請勿進行換油作業。
2. 當注入之油量超過油鏡中心點時，泵浦運轉時恐會造成機油濺出，而導致機器故障。

### 三、清潔維護作業

- 維護或清潔前，請務必關閉霧扇，並拔下電源線、電源連接線 ( A ) 和高壓軟管 ( B )。確保清潔期間不要讓微霧風扇繼續運轉。



- 風扇的外部設計簡潔。使用者可以使用工具輕鬆拆卸風扇組件進行清潔。前後網片、扇葉均可用清水清洗。但不要用水沖洗其他部位。
- 風扇葉片採用鋁材質；請小心處理，以免變形。
- 清潔後，請將零件完全乾燥後再安裝和使用。安裝風扇葉片固定螺絲時，請務必將其安裝到風扇馬達軸 ( C ) 上的平坦部分。請勿使用稀釋劑、汽油、洗滌劑或鹼性清潔劑清潔零件。



## 機器長期保管方式

如果長時間停止使用本機器，敬請按照下列流程進行保管步驟：

1. 關閉水源，卸下進水管。
2. 打開水箱底部的排水蓋將水排空。並將過濾器/網(1)(2)清洗乾淨。
3. 按壓排氣開關進行排氣動作。並長按 **連續細霧** 5 秒，馬達運轉燈會亮起，微霧風扇開始噴霧，排出泵浦和管路內的水。此於無水感應時間為 15 秒，時間到泵浦將自動停止。如果仍有水，請拔掉電源並重新插入以重複此步驟。
4. 關閉計時器及扇葉運轉，停止風扇。
5. 從插座拔下電源線。
6. 將設備存放在陰涼乾燥處，遠離危險環境。

## 運輸說明

運送時需使用載重能力超過 100kg 的堆高機或堆高機。將牙叉插入紙箱底部的兩個孔中，然後將紙箱向上抬起以便運輸。





## 故障診斷與障礙排除

若是發生不良狀況時，多半可以使用以下之對策來解決，使機器恢復正常運作。萬一無法解決或是有不清楚的地方，請向購買的經銷商詢問。詢問的同時，敬請告知您購買的產品型號及機器流水號。

不良事項	原因	對策
•無法啟動馬達	<ul style="list-style-type: none"> <li>•電源失效</li> <li>•電壓過低</li> <li>•檢查水源是否充足</li> </ul>	<ul style="list-style-type: none"> <li>•確認電源供應</li> <li>•檢查電壓</li> <li>•檢查進水水源</li> <li>•檢查側立式浮球開關</li> </ul>
•運轉聲音大	<ul style="list-style-type: none"> <li>•電壓過低</li> <li>•滲入空氣</li> <li>•迫緊受損</li> </ul>	<ul style="list-style-type: none"> <li>•檢查電壓</li> <li>•按壓排氣開關</li> <li>•清潔過濾網(1)(2)</li> <li>•更換迫緊</li> </ul>
•馬達停止運轉	<ul style="list-style-type: none"> <li>•過載保護跳脫</li> <li>•電壓不足</li> </ul>	<ul style="list-style-type: none"> <li>•檢查電壓</li> <li>•檢查進水</li> <li>•向經銷商詢問</li> </ul>
<ul style="list-style-type: none"> <li>•不進水</li> <li>•不出水</li> </ul>	<ul style="list-style-type: none"> <li>•泵浦、管路有空氣</li> <li>•過濾器或噴嘴堵塞</li> <li>•活門沾黏</li> </ul>	<ul style="list-style-type: none"> <li>•排除泵浦空氣</li> <li>•清理過濾器和噴嘴</li> <li>•向經銷商詢問</li> </ul>
•未達規定之壓力	<ul style="list-style-type: none"> <li>•噴嘴磨耗、出水量過大</li> <li>•泵浦不良</li> </ul>	<ul style="list-style-type: none"> <li>•更換噴嘴</li> <li>•向經銷商詢問</li> </ul>
•出水量不穩定	<ul style="list-style-type: none"> <li>•噴嘴堵塞</li> <li>•滲入空氣</li> <li>•進水過濾器堵塞</li> </ul>	<ul style="list-style-type: none"> <li>•清理噴嘴及過濾網</li> <li>•按壓排氣開關</li> <li>•檢查進水系統</li> <li>•向經銷商詢問</li> </ul>
過載保護開關跳脫	<ul style="list-style-type: none"> <li>•輸入電壓不正確</li> <li>•電流過載</li> <li>•電壓不足</li> </ul>	<ul style="list-style-type: none"> <li>•檢查電壓、電線後再次按壓復歸</li> </ul>

※如果此處列出的解決方案無法解決問題，請聯絡當地經銷商。

# GENERAL SAFETY INFORMATION



## ATTENTION

- Read the manual and safety precautions before using the misting fan.
- Do not allow children to operate the misting fan. Keep children away from the misting fan while it is in operation.
- To reduce the risk of short circuit, please place the misting fan in a dry and flat place.
- Drain the water from the tank after use to prevent damage caused by water freezing.
- Please make sure the misting fan is properly grounded.
- Do not spray flammable or corrosive liquids on the misting fan.
- Only use tap water or clean water for the inlet water source.
- Please avoid dropping or subjecting it to strong impact.



## WARNINGS

- The power supply to this machine needs to be connected to a No-Fuse Breaker (NFB) with a specification of 3A.
- When the Circuit Breaker trips, check if the voltage is correct and if the current is overloaded. The electrical power supply voltage and frequency must match that specified on the product.
- To reduce the risk of electric shock, turn off the motor before any maintenance and troubleshooting.
- The misting fan must not be run without water. Running without water will cause serious damage.
- Before using the fan, install the front and rear meshes.
- Please stop using the misting fan if it is deformed or has an irregular odor.
- Please do not disassemble or modify the machine by yourself, as this may cause malfunction, fire or electric shock.
- Be careful not to let objects enter the fan, pump or water tank, as this may cause malfunction or accident.



## DANGEROUS

- To reduce the risk of burns, do not touch the surface of the pump while operating.
- To avoid risk of electric shock, always use grounded electric plugs in sockets that are properly grounded. Do not remove the grounding pin or wire from the electric plug.
- Do not touch the rotating parts when the misting fan is operating to avoid injury. Do not put fingers into the front/rear meshes during operation.
- For safety concerns, turn off the misting fan, unplug the power plug and empty the water tank after each use.
- Do not touch the pump or motors with wet hands.
- Do not operate the misting fan in the rain or during thunderstorms.
- This electrical product is not intended for use by users (including children) with limited physical, sensory, mental abilities, experience or knowledge, unless they are supervised or instructed to use safely by a person responsible for their safety.

# INSTRUCTIONS

## I. Before Operation

1. Lock the Locking Castors to prevent the misting fan from accidentally moving. Make sure the Locking Caster locks are unlocked before moving.
2. Connect the Fan securely to the Water Tank. (For installation, please refer to page 16)
3. Fasten the water hose to the faucet and the inlet of the Water Tank. The tap inlet pressure should be lower than 7kgf/cm<sup>2</sup>(100psi) to avoid damaging the machine. (For filling water tank, refer to part II)
4. Do not plug in the power supply before installation is completed to avoid electric shock. Before turn on the power, check whether the power supply is of the correct voltage and frequency and whether there is sufficient water in the Water Tank.
5. Set the spray and stop times on the 3-Stage Timer and adjust the fan angle and speed. (For 3-Stage Timer Setting, please refer to page 17; for adjustment, refer to page 18)
6. Push the Air Release Valve for 15 seconds when running the pump for the first time, when restarting the pump after it has run out of water, or after a long period without use. (For releasing pump air, refer to part IV.)



### **ATTENTION:**

Make sure the length of the extension cord does not exceed 10 meters and the diameter is larger than 0.75mm<sup>2</sup>.

## II. Fill The Water Tank

1. Use clean water or tap water to manually add water from the back Inlet. Use the Filter(3) for preliminary water purification. Please do not remove the Filter(3) to extend the service life of the machine. Or connect the water hose to a faucet to add water directly. The water level must not exceed the top of the Water Gauge. Overfilling may cause mechanical damage.
2. When adding water manually, do not splash the motor or other electrical components.
3. Keep the motor and electrical components dry while filling the water tank.

## III. After Operation

1. Press **OFF** for 5 seconds to stop the misting pump.
2. Stop the fan and turn off the water supply.
3. Open the Drain Cap on the bottom of the Water Tank to empty the tank.

## IV. Release air

Be sure to release the air from the pump before using the misting fan.



1. Pull the Primer Pump out from the clips.

Please carry out steps 2 and 3 simultaneously.



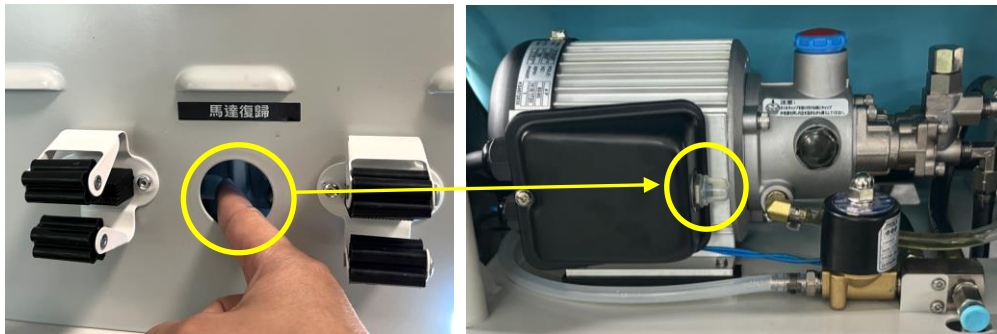
2. Press the button on the Air Release Valve with one hand.  
\* While holding the button down, begin operating the Primer Pump.
3. Squeeze the Primer Pump repeatedly until water begins to come out of the Air Release Valve outlet.  
\*\* If water does not come out of the Air Release Valve after 30 seconds or more of using the Primer Pump, check that the hoses are not clogged or bent, and try again.

## SAFETY COMPONENTS

### A. Motor Protection Circuit Breaker

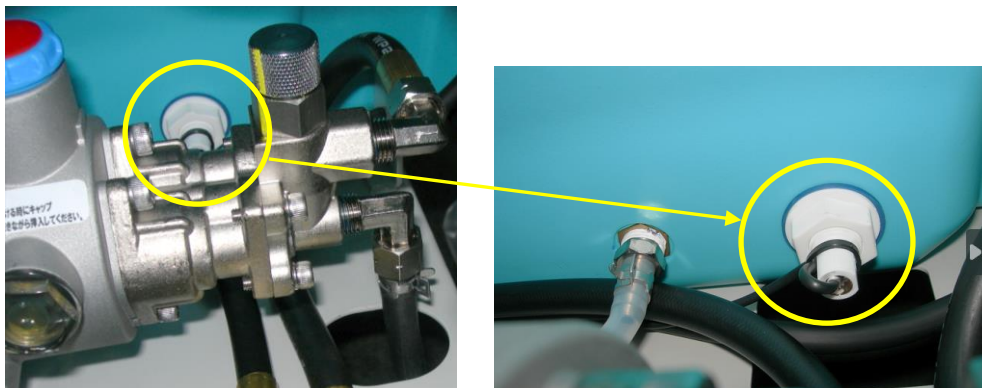
#### Restart the Motor

If the button inside the white cover pops out, it means "reset activated". Remove the cover plug and press the button; the motor will start running.



### B. Float Switch

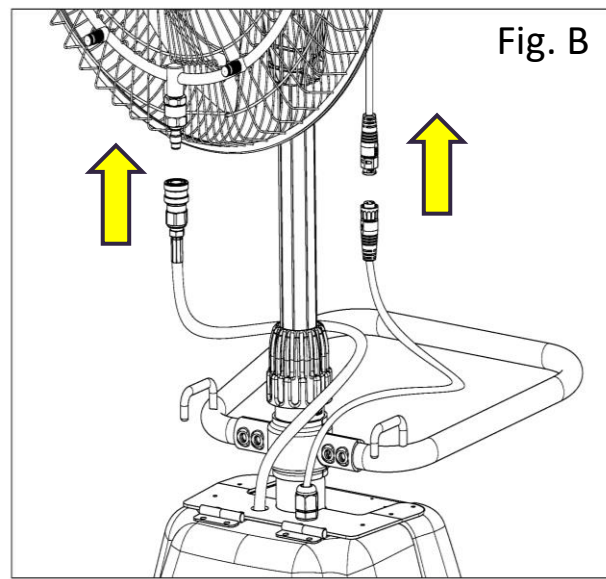
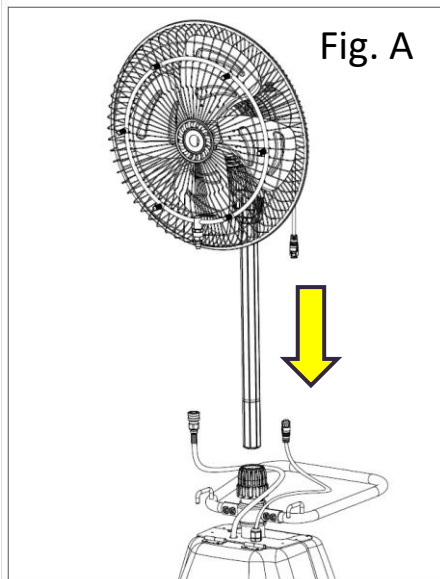
This dry run protection prevents the pump from running without water.





# INSTALLATION

1. Insert the fan into the body ( Fig. A )
2. Connect the High Pressure Hose to the Misting Ring connector ( Fig. B & Fig. C )

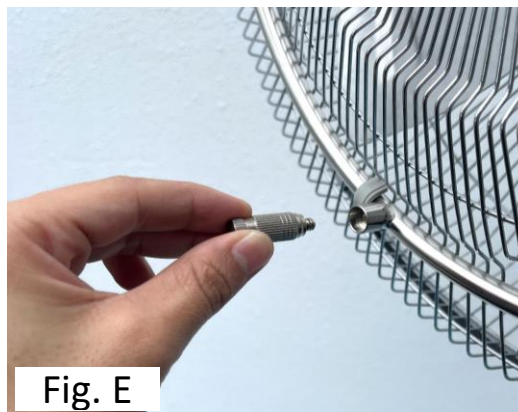


3. Connect the base power cord and fan power cord. ( Fig. B & Fig. D )

**Notice!** Do not install the connector with wet hands or when the power cord is wet to avoid the risk of electric shock or electric leakage.



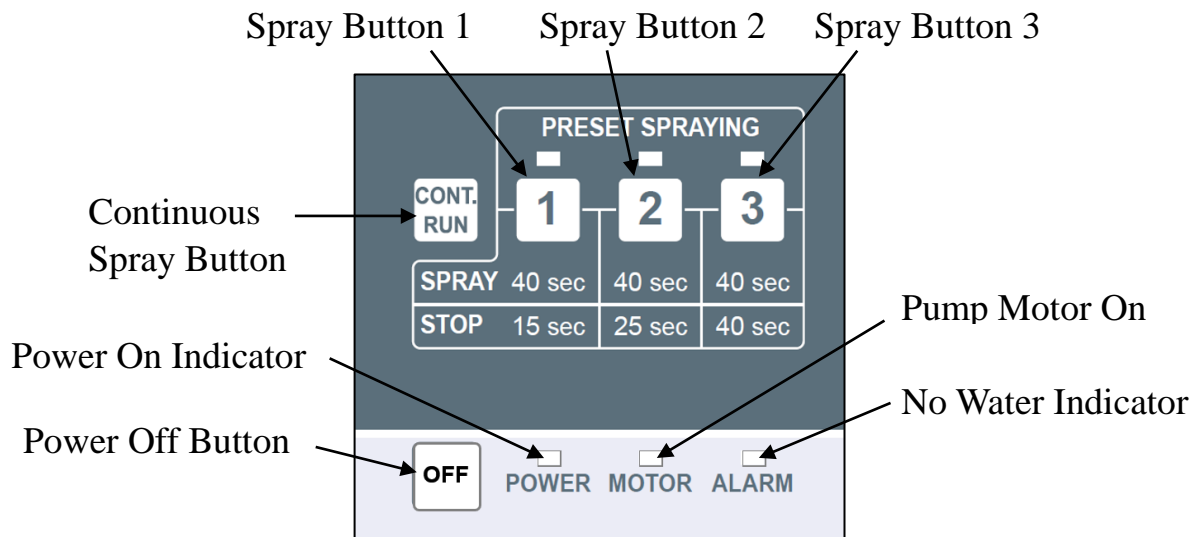
4. Screw nozzles into the Misting Ring. Be sure to connect the nozzles to the Misting Ring tightly to prevent leaking. ( Fig. E )



**Warning!** During operation, do not disconnect the quick connector that delivers water to the Misting Ring. Do not unscrew the nozzle while there is still pressure in the Misting Ring.

## 3-STAGE TIMER SETTING

### A. Parts of The Timer (#AWL-4)



### B. Operation Modes

#### 1. Manual Mode: Continuous Spray

- Spray On: Press **CONT. RUN** and hold for 5 seconds. The MOTOR light will turn on and the misting fan will start spraying continuously.
- Off: Press **OFF** to stop spraying.

#### 2. Automatic Mode: Alternately spray and stop

- Spray Mode 1: Press **1** and hold for 5 seconds. The MOTOR light will turn on and the misting fan will alternately start spraying for 40 seconds and stop for 15 seconds.
- Spray Mode 2: Press **2** and hold for 5 seconds. The MOTOR light will turn on and the misting fan will alternately start spraying for 40 seconds and stop for 25 seconds.
- Spray Mode 3: Press **3** and hold for 5 seconds. The MOTOR light will turn on and the misting fan will alternately start spraying for 40 seconds and stop for 40 seconds.
- Off: Press **OFF** to stop spraying.

#### 3. No Water Warning

- The ALARM indicator light will be on if the system has stopped due to a lack of water. Please check the water tank and restart the misting fan after adding sufficient water.

**※Note: Never attempt to run the misting fan without water, as this will cause serious damage to the pump components.**

# ADJUSTMENT

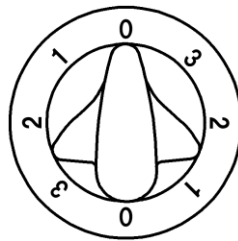
## 1. Oscillation Knob

Let the fan rotate left and right (about 105°)

Pull	Stop
Press	Oscillate

## 2. Fan Speed Knob

0	Stop
1	Light
2	Moderate
3	Strong



## 3. Tilt Adjustment Knob

Adjust the fan angle after loosening the knob.

## 4. Height Adjustment Knob

Adjust the height of the fan

Counterclockwise	Loosen
Clockwise	Tighten

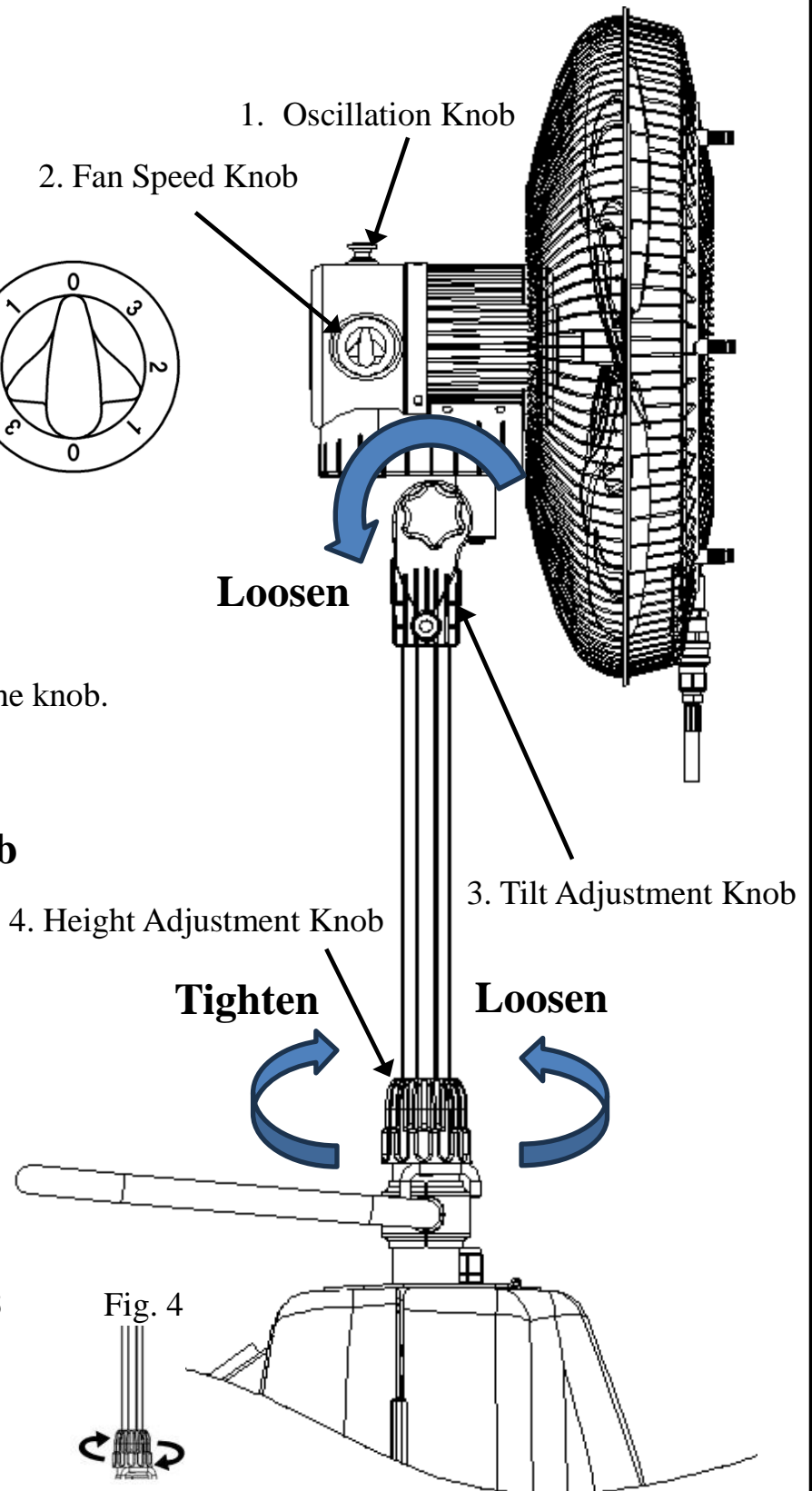
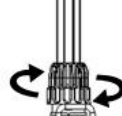
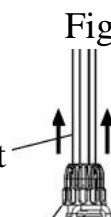
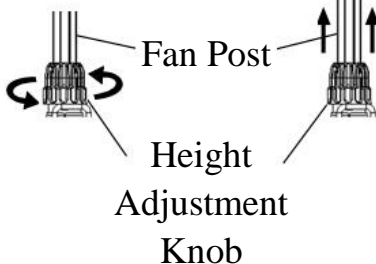


Fig.1

Fig. 2

Fig.3

Fig. 4



## MODEL SPECIFICATIONS & APPLICABLE ENVIRONMENT

MODEL	Power	Frequency	Voltage	Phase	Flow Rate	Pressure
WMF-10005-5F	310W	50Hz	230V	1Φ	0.4 L/min	1000 psi
WMF-10005-6F	400W	60Hz	110V		0.5 L/min	

MODEL	Weight(kg)	Dimensions LxWxH (mm)
WMF-10005-5F	45	740x525x1660~1865
WMF-10005-6F		

### Ambient Air Temperature

The misting fan is capable of operating correctly in the intended ambient air temperature. The minimum requirement for all electrical equipment is correct operation in ambient air temperatures outside of enclosures (Cabinet or box) between 5°C and 45°C.

### Humidity

The misting fan is capable of operating optimally up to relative humidity not exceeding 85% at a maximum temperature of +45°C.

### Altitude

The fan is capable of operating correctly at altitudes up to 1,000m above sea level.

### Transportation & Storage

During transportation and moving, remove the fan assembly from the base when moving. If the base is moved with the fan assembly installed, the fan assembly might be damaged.

The misting fan can withstand the effects of transportation and storage temperatures within a range of -10°C to +55°C. Suitable means shall be provided to prevent damage from humidity, vibration and shock.

Note: The fan is susceptible to damage at extremely low temperatures, including PVC insulated cables.

### Disposal of Scrapped Misting Fans

Please follow local regulations.

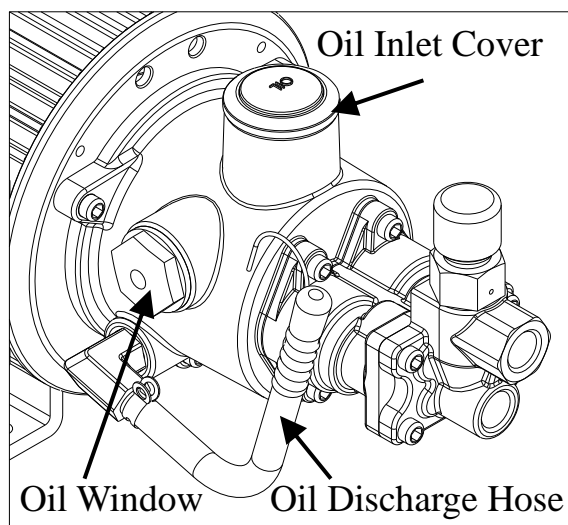


# ROUTINE MAINTENANCE

## I. Routine Maintenance Schedule

Description	Action	Frequency
Pump	Check Oil Level	Before every use
Filter	Clean	Every 15 days
Nozzles	Clean	As necessary

## II. Change Pump Oil



Machine Oil Type	SAE 30~40
Oil Volume	110 cc
Oil Change Frequency	1. First 30~50 hours of use. 2. Every 100~200 hours of use.

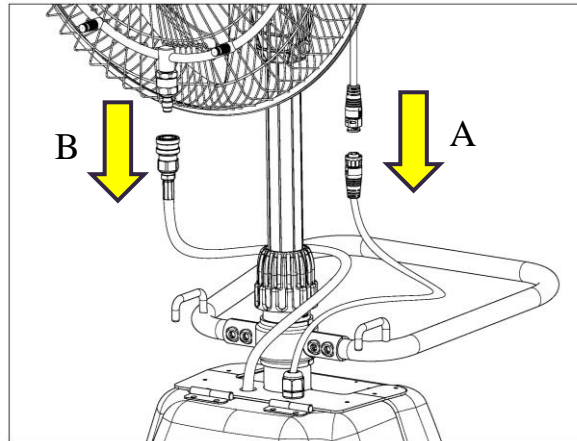
1. Open the cover.
2. Unplug the end of the Oil Discharge Hose. Please use a container or a tray to collect oil as it comes out of the pump. When the oil stops draining, please refasten the plug.
3. Carefully refill 110 cc of motor oil of #30 or #40 weight and make sure the oil level is up to the middle of the oil window.
4. Refasten the oil inlet cover.

### **⚠ ATTENTION :**

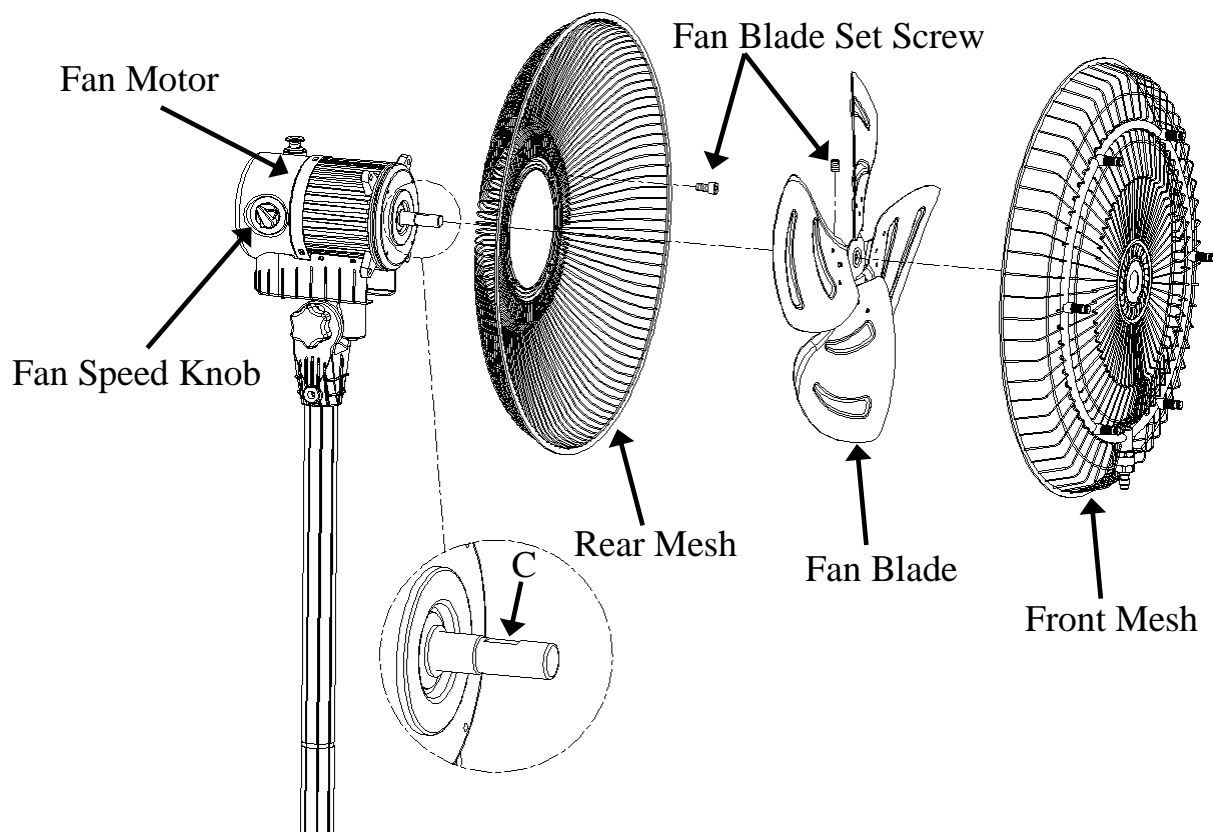
Please do not change oil immediately after using the misting fan. The oil will be hot and might cause personal injury.

### III. Cleaning

- Please be sure to turn off the Fan Speed Knob, and unplug the power cord, power connection cable (A) and High Pressure Hose (B) before maintenance or cleaning. Make sure not to leave the misting fan running during cleaning.



- Users can easily disassemble the fan components for cleaning. The front and rear meshes and fan blades can be cleaned with clean water. Do not rinse other parts with water.
- The fan blade is made of aluminum; please handle with care to avoid bending or deformation.
- After cleaning, please dry the parts completely before installation and use. When installing the Fan Blade Set Screw, be sure to align it with the flat part on the Fan Motor shaft (C). Do not use thinner, gasoline, detergent or alkaline cleaners to clean parts.



## TURNING OFF THE MISTING FAN & STORAGE

If the misting fan will not be used for a long period, please follow these instructions.

1. Turn off the water supply and disconnect the suction hose.
2. Open the drain cap at the bottom of water tank to drain water. Clean the filter (1)(2).
3. Press the Air Release Valve to vent the air from the pump. Press **CONT. RUN** and hold for 5 seconds. The MOTOR light will turn on and the misting fan will start spraying to eliminate the water from the pump and hose. Pump will stop due to the 15 seconds No Water Alarm. If water still remains, please unplug the power and plug in again to repeat this step.
4. Turn off the timer to stop spraying. Switch the fan speed knob to “0” to stop the fan.
5. Unplug the power cord from the socket.
6. Store the unit in a cool dry place away from hazardous or extreme conditions.

## TRANSPORTATION INSTRUCTIONS

For transportation, a forklift or a pallet jack with a load capacity of more than 100kg is required. Insert its forks through the two holes at the bottom of the carton and lift the carton up for transport.



# TROUBLESHOOTING

The following are simple troubleshooting methods. If you have any questions, please contact your local dealer and remember to provide the **model** and **serial number** of the product you purchased.

Problem	Cause	Solution
Cannot start motor	<ul style="list-style-type: none"> <li>⊙ Power failure</li> <li>⊙ Insufficient voltage</li> <li>⊙ Insufficient water supply</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Check the power supply.</li> <li>⊙ Check the voltage.</li> <li>⊙ Check the water supply.</li> <li>⊙ Check Float Switch.</li> </ul>
Unusual noise	<ul style="list-style-type: none"> <li>⊙ Insufficient voltage</li> <li>⊙ Air in the pump</li> <li>⊙ The packings are worn out.</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Check the voltage.</li> <li>⊙ Press the Air Release Valve.</li> <li>⊙ Clean the filter (1)(2).</li> <li>⊙ Replace the packings.</li> </ul>
Motor stops running	<ul style="list-style-type: none"> <li>⊙ Insufficient voltage</li> <li>⊙ Circuit breaker is tripped.</li> <li>⊙ Insufficient water supply</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Check the voltage.</li> <li>⊙ Check the water supply.</li> <li>⊙ Refill water tank or connect water supply hose.</li> <li>⊙ Contact your local dealer.</li> </ul>
Suction failure or output failure	<ul style="list-style-type: none"> <li>⊙ There is air in the pump or hose.</li> <li>⊙ Filters or nozzles are clogged.</li> <li>⊙ The valve assemblies are worn out or blocked.</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Press the Air Release Valve.</li> <li>⊙ Clean the filters and nozzles.</li> <li>⊙ Contact your local dealer.</li> </ul>
Insufficient pressure	<ul style="list-style-type: none"> <li>⊙ Nozzle wear.</li> <li>⊙ Pump failure.</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Replace the nozzles.</li> <li>⊙ Contact your local dealer.</li> </ul>
Unstable water output	<ul style="list-style-type: none"> <li>⊙ Filters or nozzles are clogged.</li> <li>⊙ Air in the pump</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Clean the filter(1)(2) and nozzles.</li> <li>⊙ Press the Air Release Valve.</li> <li>⊙ Check the water supply.</li> <li>⊙ Contact your local dealer.</li> </ul>
Circuit breaker tripped	<ul style="list-style-type: none"> <li>⊙ Wrong voltage</li> <li>⊙ Current overload</li> <li>⊙ Insufficient power supply</li> </ul>	<ul style="list-style-type: none"> <li>⊙ Check the power supply and power cord then press the reset button.</li> </ul>

**If the solutions listed here do not resolve the problem, please contact your local dealer.**