

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、專業設計製造

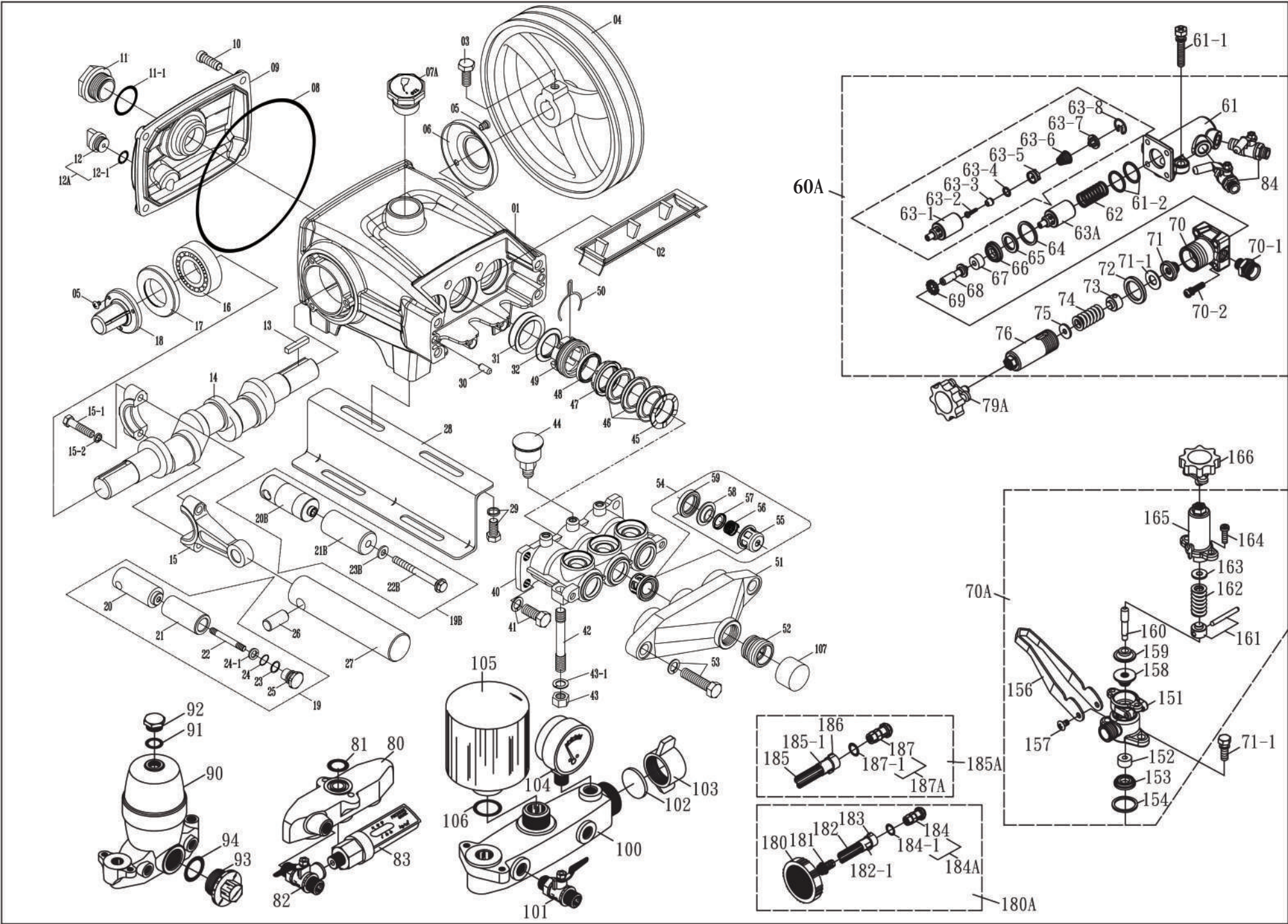
25/45 SERIES USER’S MANUAL
25/45 系列操作手冊



感謝您購買物理產品，使用前請詳閱本說明。
Thank You For Buying Our Product.
Please Read The Manual Before Use.

2025.06V

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 .



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圖號 No.	零件名稱	DESCRIPTION	數量 Q'TY
01	曲軸箱	Crankcase	1
02	防塵蓋	Dustproof Cap	1
03	六角螺絲	Set Bolt	1
04	皮帶輪	Pulley	1
05	大扁頭螺絲	Screw	6
06	曲軸油封蓋 A (中空)	Crankshaft Oil Seal Cover (A)	1
07A	加油蓋組	Oil Inlet Cover Assy	1
08	後蓋迫緊	Rear Cover Packing	1
09	曲軸箱後蓋	Rear Cover	1
10	大扁頭螺絲	Screw	4/5
11A	油鏡組	Oil Window Assy	1
11	油鏡	Oil Window	1
11-1	O形環	O-ring	1
12A	排油螺絲組	Drainage Screw Assy	1
12	排油螺絲	Drainage Screw	1
12-1	O形環	O-ring	1
13	曲軸鍵	Crankshaft Key	1
14	曲軸	Crankshaft	1
15	連桿	Connecting Rod Assy	3
15-1	六角螺絲	Set Bolt	6
15-2	彈簧華司	Spring Washer	6
16	軸承	Bearing	2
17	曲軸油封	Crankshaft Oil Seal	2
18	曲軸油封蓋 (套筒一體)	Crankshaft Oil Seal Cover (Cone)	1
19	陶瓷柱塞組 (G1)	Ceramic Piston Assy (G1)	3
20	柱塞桿	Piston Rod	3
21	柱塞套 (陶瓷)	Ceramic Piston Sleeve	3

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圖號 No.	零件名稱	DESCRIPTION	數量 Q'TY
22	柱塞套固定螺絲防塵蓋	Piston Screw	3
23	柱塞套平墊圈	Gasket	3
24	O形環	O-ring	3
24-1	背托環	Back-up Ring	3
25	柱塞套固定螺帽	Set Nut	3
19B	陶瓷柱塞組 (G2)	Ceramic Piston Assy (G2)	3
20B	柱塞桿	Piston Rod	3
21B	柱塞套 (陶瓷)	Ceramic Piston Sleeve	3
22B	柱塞套固定螺絲	Piston Screw	3
23B	止水墊片	Gasket	3
26	柱塞銷	Piston Pin	3
27	不鏽鋼柱塞	Sst Piston	3
28	腳座	Crankcase Stand	2
29	六角螺絲附華司	Set Bolt W/ Washer	4
30	汽缸銷	Set Pin	2
31	柱塞油封	Piston Oil Seal	3
32	柱塞中間皮	Waterproof Ring	3
40	汽缸	Cylinder	1
41	六角螺絲附華司	Set Bolt W/ Washer	4
42	雙頭牙螺絲	Double-end Screw	2
43	六角螺帽	Nut	2
43-1	彈簧華司	Spring Washer	2
44	黃油杯 (銅)	Grease Cup (Brass)	3
45	V迫緊底座	V-packing Seat	3
46	V迫緊 (氟素)	V-packing (F.P.M.)	9
	V迫緊 (A120)	V-packing (A120)	
	V迫緊 (乙烯隆)	V-packing (UCL)	
	V迫緊 (NBR)	V-packing (NBR)	

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圖號 No.	零件名稱	DESCRIPTION	數量 Q'TY
47	黃油環 (POM)	Grease Ring (POM)	3
	黃油環 (銅)	Grease Ring (Brass)	
48	V型油環	V-type O-ring	3
49	調整環	Adjusting Ring	3
50	調整環固定夾	Set Clip	3
51	進水室	Suction Chamber	1
52	進水室接頭	Connector	1
53	六角螺絲附華司	Set Bolt W/ Washer	2
54	活門組	Valve Assy	6
55	活門帽	Valve Cage	6
55-1	活門塞座	Valve Plug Base	6
56	活門彈簧	Valve Spring	6
57	活門塞	Valve Plug	6
58	活門座	Valve Seat	6
59	活門皮	Valve Packing	6
*60A	自動洩壓總成(不含調壓螺絲組)(G2)	Unloading Valve Assy (W/o Knob) (G2)	1
*70A	安全弁(不含調壓螺絲組)(G2)	Safety Valve Assy(W/o Knob) (G2)	1
61-1/71-1	六角螺絲附華司	Set Bolt W/ Washer	2
79A/166	調壓螺絲組	Pressure Regulating Knob Assy	1
80	出水室	Outlet Chamber	1
81	O形環	O-ring	1
82	三通球形閥	T-ball Valve	1
83	壓力錶 (橫)	Pressure Gauge (Horizontal)	1
90	出水室連結空氣室	Outlet & Air Chamber	1
91	O形環	O-ring	1
92	空氣室塞頭	Air Chamber Plug	1
93	出水塞頭	Plug	1

圖號 No.	零件名稱	DESCRIPTION	數量 Q'TY
*60A	<u>自動洩壓總成(G2)</u>	<u>Unloading Valve Assy (G2)</u>	
61	洩壓汽缸套	Unloading Valve Cylinder	1
61-2	O形環	O-ring	2
62	洩壓輔助彈簧	Auxiliary Spring	1
63A	柱塞活門組	Piston Valve Assy	1
63-1	柱塞活門體	Piston Valve Body	1
63-2	圓頭自攻螺絲	Screw	1
63-3	閥塞頭	Valve Plug	1
63-4	O形環	O-ring	1
63-5	閥塞座	Valve Plug Seat	1
63-6	球閥固定彈簧	Spring	1
63-7	彈簧底座	Spring Seat	1
63-8	C扣環	C-clip	1
64	方形環	Square Ring	1
65	壓力閥輔助片	Auxiliary Plate	1
66	壓力閥座	Valve Seat	1
67	壓力閥	Pressure Valve	1
68	壓力閥桿	Valve Rod	1
69	消音片	Damper Plate	1
70	迴水座	Overflow Chamber	1
70-1	迴水接頭	Overflow Coupling	1
70-2	圓頭螺絲附華司	Screw W/ Washer	4
71	伸縮套皮	Compression Packing	1
71-1	平墊圈	Washer	1
72	固定環	Set Ring	1
73	彈簧下座	Spring Seat	1
74	調壓彈簧	Pressure Regulating Spring	1
75	彈簧上座	Spring Seat (Upper)	1
76	調壓彈簧套	Pressure Regulating Pipe	1
84	球形閥	Ball Cock	2

泵浦與引擎之使用說明

1. 檢查每個扣件，確定噴霧機與引擎都穩固的裝在架子上。
2. 兩個皮帶輪應裝於一直線上，皮帶應鬆緊適中。
3. 檢查引擎齒輪箱是否加機油，使用燃料是否正確。
4. 起動引擎前開關是否打開；化油器開關是否打開。
5. 把吸水管鎖緊泵浦吸水口，同時將吸水管過濾網(#180)放入水槽，不宜放於底部，最佳位置為底部上方20公分處，預防吸進底部泥沙，確保泵浦壽命。
6. 吸水管給水，應使用原廠尺寸的吸水管，以避免吸水量不足，達不到使用壓力。
7. 鎖好輸出水管、噴槍。
8. 打開泵浦排氣球閥後啟動引擎，排洩泵浦內之空氣，確認正常出水，然後將排氣球閥關閉，即可使用噴槍做噴霧工作。
9. 壓力調整：壓力調整弁加壓以順時針方向調整，調整壓力同時須打開噴槍，最高壓力不得高於泵浦規格壓力以上，以維護機械壽命，並可依工作物實際壓力需求，逆時針降壓以確保於工作物的最佳使用壓力。
10. 暫停使用引擎、泵浦時，空轉不宜超過5分鐘，以確保V迫緊不受水溫升高而壽命受損，及浪費燃料，關掉引擎。
11. 泵浦與引擎初使用10-15小時應更換機油，以後每隔70小時再更換一次。(使用前應注意機油是否變質)
12. 更換機油時，請打開排油螺絲排出骯髒之機油。
13. 加機油時把排油螺絲鎖緊，打開加油蓋，注入#30-40之清潔機油，正確加油量在油鏡2/3位置。
14. 黃油杯應隨時注滿黃油，每使用2小時應將黃油杯旋轉2至3圈。
15. 噴霧完畢，將調壓把手拉至頂端，並以清水操作噴霧機以清除內部殘留之化學品。
16. 嚴禁噴槍對人噴射。
17. 引擎運轉時會產生高溫，須小心使用。
18. 噴霧機在高速運轉下，須注意皮帶及普利部分，不可碰觸。

泵浦之簡易維修操作說明

一、無法供水及壓力不穩

1. 檢查吸水管(#182)是否洩漏(破損或未鎖緊)。
2. 打開出水開關排掉多餘的空氣。
3. 取下進水室及出水室檢查活門組是否阻塞或損壞。
4. 檢查過濾網(#180)是否阻塞。

二、壓力不足

1. 檢查壓力是否調整適當。
2. 檢查皮帶是否太鬆。
3. 檢查噴霧管與接頭是否洩漏或損壞。
4. 噴嘴磨損導致壓力下降。

三、汽缸洩漏

1. 取下防塵蓋(#02)鎖緊調整環(#49)。
2. 如仍無效，則為汽缸內V迫緊損壞。
3. 柱塞磨損(柱塞縱方向刮痕是為壓力下降及漏水的原因之一)。

圖號 No.	零件名稱	DESCRIPTION	數量 Q'TY
94	O形環	O-ring	1
100	出水室	Outlet Chamber	1
101	球形閥	Ball Cock	2
102	防漏墊片	Leak-proof Gasket	1
103	封口蝶頭	Wing Nut	1
104	壓力錶	Pressure Gauge	1
105	空氣室	Air Chamber	1
106	O形環	O-ring	1
107	*進水口蓋(選配)	*Suction Chamber Cap (Optional)	1
180A	吸水管組	Suction Hose Assy	1
180	過濾網	Filter	1
181	過濾網申目	Filter Socket	1
182	吸水管	Suction Hose	1
182-1	銅束	Ferule	1
183	吸水管蝶頭	Suction Hose Wing Nut	1
184A	吸水管申目組	Suction Hose Socket Assy	1
184	吸水管申目(銅)	Suction Hose Socket (Brass)	1
	吸水管申目(一般)	Suction Hose Socket	
184-1	吸水管申目(方形環)	Square Ring	1
185A	迴水管組	Overflow Hose Assy	1
185	迴水管	Overflow Hose	1
185-1	銅束	Ferule	1
186	迴水管蝶頭	Overflow Hose Wing Nut	1
187A	迴水管申目組	Overflow Hose Socket Assy	1
187	迴水管申目(銅)	Overflow Hose Socket (Brass)	1
	迴水管申目(一般)	Overflow Hose Socket	
187-1	迴水管申目(方形環)	Square Ring	1

[illegible]

ATTENTION!

1. Check every fastener to make sure that the sprayer and engine are installed firmly onto the frame.
2. Set both pulleys in a straight line and set the belt to an appropriate tightness.
3. Check whether there is sufficient engine oil and use the appropriate fuel.
4. Before starting the engine, check both ON/OFF switches on the engine and the carburetor.
5. Connect the suction hose to the inlet of the sprayer. Leave the suction hose filter 20 cm above the bottom of the water tank in order to prolong the life of the sprayer.
6. Make sure the water supply is sufficient to allow the pump to reach its working pressure.
7. Connect the spray hose to the spray gun.
8. Open the exhaust cock before starting the engine in order to release air from the pump. Before using the spray gun for spraying, confirm the circulation of water in the pump is flowing properly.
9. The maximum pressure should not exceed the set pressure of the pump. When adjusting the pressure, the spray gun must be opened. Turn pressure regulating knob in a clockwise direction to increase the pressure and counter-clockwise to reduce the pressure. Please use the pressure regulating knob value or the pressure gauge as the pressure reference when adjusting.
10. In order to avoid any damage to the packings and the pump, shut off the engine /motor when stopping the unit for more than 5 minutes.
11. Replace the oil in the pump after the first 10 to 15 hours of use. After this, the oil should be changed after every 70 hours of use. Make sure the oil is in good condition before each use.
12. Drain any sludge before changing the oil.
13. Replace and tighten the nut before refilling with #30-40 oil, then refill the oil level up to 2/3 of the oil window.
14. Always keep the grease cup filled with grease. Twist the grease cup twice for every 2 hours of spraying.
15. After finishing spraying, loosen the pressure regulating knob and operate the sprayer with fresh water to clean out any remaining chemicals.
16. Never aim the sprayer output directly at people or animals.
17. Operate carefully, as the engine's working temperature is very hot.
18. Do not touch the pulleys or belts when the sprayer is running.

TROUBLESHOOTING

1. Instability of working pressure and water supply:
 - A. Check whether the suction hose (#182) is leaks or sticks.
 - B. Open the ball cock to release any air from the system.
 - C. Remove the suction chamber and outlet chamber to check if the valve assemblies are stuck or damaged.
 - D. Check whether the suction filter (#180) is obstructed.
2. Insufficient pressure:
 - A. Check whether the pressure is properly adjusted.
 - B. Check whether the belt is too loose.
 - C. Check whether the spray hose and the coupling are damaged.
 - D. Check whether the valve or valve sheath is worn down.
3. Cylinder leakage:
 - A. Remove the dustproof cover (#02) and then fasten the adjusting ring (#49).
 - B. If the problem persists, replace the v-packing in the cylinder.
 - C. Check whether the Piston is damaged. A scraped Piston can lead to sprayer leakage and low pressure.