

1

Confirmation of Box Contents

Check the contents of your box to the Bill of Material list above. Ensure that your unit is filled with the correct lubricant. The PRO MP-6 unit comes pre-assembled.

Other Included Parts/Accessories:

- 2 A-710 Kit - 1" Beam Clamp (includes fasteners)
- 6 B-801 - 5/16" T x 1/8" MBSPP Tube Connector (straight)
- 6 B-802 - 5/16" T x 1/8" MBSPP Tube Connector (90 degree)
- 6 B-803 - 5/16" T x 1/8" MNPT Tube Connector (straight)
- 6 B-804 - 5/16" T x 1/4" MNPT Tube Connector (straight)
- 4 B-806 - MP-6 Port Plugs (for non-active ports)
- 100ft. B-810 - 5/16" tubing (pre-filled)



A-710 Kit



B-801



B-802



B-803



B-804



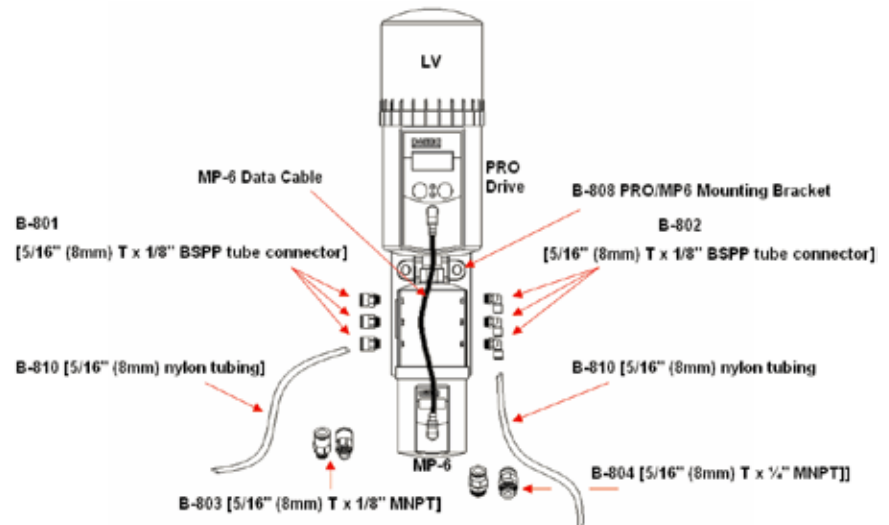
B-806



B-810

Pre-Assembled:

- 1 Perma PRO Drive Unit
- 1 Perma PRO Protection Cover
- 1 250cc/500cc LV Unit (filled with lubricant)
- 1 Battery Pack (Installed in Drive Unit)
- 1 MP-6 Distribution Block
- 1 MP-6 Data Cable
- 1 B-808 - PRO/MP-6 Mounting Bracket
- 2 B-807 - PRO Mounting Bracket bolts and washers



2

Installation of Tube Connectors

Select the outlets you are going to utilize on the MP-6.

Connect either the B-801 or B-802 fittings. See photo at right for sample.

Outlets that are NOT being utilized should be capped with B-806 MP-6 port plugs.

B-801

B-802



3

Setup / Configuration

For the following steps the push buttons MODE / SAVE and ON / OFF / SELECT are used for configuration and to save selected settings.

Confirm PRO MP-6 system is powered-off. LCD Display shows two dashmarks (--).

a Info

Long push MODE / SAVE button to show the current discharge period (default 6 months).

b PIN Entry

Long push MODE / SAVE button to begin PIN entry.

The initial PIN code is '00'. Do not change the default PIN until outlets are configured.

Short push MODE / SAVE button to select second digit.

c LC

Long push MODE / SAVE button to enter LC size configuration.

Short push SELECT button to select correct LC size (250cc or 500cc).

d Time

Long push MODE / SAVE button to enter time configuration.

Short push SELECT button to change from Months, Weeks, Days.

Short push MODE / SAVE to change numerical value of Months, Weeks, Days.

Use the PRO discharge chart on the right for time setting reference.

e Outlets

Long push MODE / SAVE button to enter outlet configuration. Short push SELECT button to activate the currently selected outlet. Short push MODE / SAVE to select the next outlet. Other outlets may be activated / deactivated in the same way, short push SELECT button. Outlet status is shown in the display.

f PIN

Long push MODE / SAVE button to enter PIN change menu. We strongly suggest to enter a personal PIN in order to protect your settings from unauthorized access.

Use short push MODE / SAVE button to alternate between the two digits. Short push SELECT button to change the numerical value for the selected digit.

Long push MODE / SAVE to finish the PRO MP-6 configuration and save settings. If you do not want to save the changes to settings that are currently displayed in the configuration menu, press the ON / OFF / SELECT button until the display shows (--) for Off or the remaining volume of the PRO LC-unit in % VOL. All other settings and already saved changes remain valid.

Please refer to the configuration chart on the next page for a quick reference of the setup / configuration process.

PRO Discharge Chart

Average discharge volume (cc/per day)


1cc = 1 shot (approx.)


































1 week = 7 days

1 month = 30.4 days

DAYS	250cc	500cc	WEEKS	250cc	500cc	MONTHS	250cc	500cc
1	250	500	1	35.71	71.43	1	8.22	16.45
2	125	250	2	17.86	35.71	2	4.11	8.22
3	83.33	166.67	3	11.9	23.81	3	2.74	5.48
4	62.5	125	4	8.93	17.86	4	2.06	4.11
5	50	100	5	7.14	14.29	5	1.64	3.29
6	41.67	83.33	6	5.95	11.9	6	1.37	2.74
7	35.71	71.43	7	5.1	10.2	7	1.17	2.35
8	31.25	62.5	8	4.46	8.93	8	1.03	2.06
9	27.78	55.56	9	3.97	7.94	9	0.91	1.83
10	25	50	10	3.57	7.14	10	0.82	1.64
11	22.73	45.45	11	3.25	6.49	11	0.75	1.5
12	20.83	41.67	12	2.98	5.95	12	0.69	1.37
13	19.23	38.46	13	2.75	5.49	13	0.63	
14	17.86	35.71	14	2.55	5.1	14	0.59	
15	16.67	33.33	15	2.38	4.76	15	0.55	
16	15.63	31.25	16	2.23	4.46	16	0.51	
17	14.71	29.41	17	2.1	4.2	17	0.48	
18	13.89	27.78	18	1.98	3.97	18	0.46	
19	13.16	26.32	19	1.88	3.76	19	0.43	
20	12.5	25	20	1.79	3.57	20	0.41	
21	11.9	23.81	21	1.7	3.4	21	0.39	
22	11.36	22.73	22	1.62	3.25	22	0.37	
23	10.87	21.74	23	1.55	3.11	23	0.36	
24	10.42	20.83	24	1.49	2.98	24	0.34	

Setup / Configuration Chart

Function	Short push	Long push	Blinking in Display
Symbol	↓	↓	

		Display		Meaning / Description	
		--		Display at delivery with attached PRO LC-unit	
a	↓ 	Time 06 Months		Shows discharge period PIN-reset	Info
b	↓ 	PIN 00 	Change first digit ↓ 	Enter first digit of current PIN PIN 00 at delivery	PIN Entry
	↓ 	PIN 00 	Change second digit ↓ 	Enter second digit of current PIN	
c	↓ 	Config. LC LC 500 	Change from LC500 to LC250 ↓ 	Set LC-unit size	LC
d	↓ 	Config. Time 06 Months 	Change Months ↓ 	Set discharge period: Either Months , Weeks , or Days	Time
	↓ 	Config. Time 01 Weeks 	Change Days or Weeks ↓ 	Set discharge period: Go to "Days" or "Weeks"	
e	↓ 	Config. Outlets 1 <input type="checkbox"/> 4 2 <input type="checkbox"/> 5 3 <input type="checkbox"/> 6 1 	Outlet 1 On / Off ↓ 	Activate outlets: Activate outlet 1 Outlets only displayed if MP-6 is connected	Outlets
		Config. Outlets 1 <input checked="" type="checkbox"/> 4 2 <input type="checkbox"/> 5 3 <input type="checkbox"/> 6 1 		Outlet 1 activated	
	↓ 	Config. Outlets 1 <input type="checkbox"/> 4 2 <input checked="" type="checkbox"/> 5 3 <input type="checkbox"/> 6 2 	Outlet 2 On / Off ↓ 	Outlet 2 activated (if desired, other outlets may be turned On / Off the same way)	
f	↓ ↓  	Config. PIN 00 	Change first digit ↓ 	PIN (first digit) enter for initial configuration or after a PIN-reset – otherwise, setting is complete	PIN
	↓ 	Config. PIN 00 	Change second digit ↓ 	PIN (second digit) enter for initial configuration or after a PIN-reset	
	↓ 	--		Configuration finished	

C O N F I G U R A T I O N M E N U I N T R O

4

Additional Information

PIN Reset

The PIN can only be changed during initial configuration or after a PIN reset. A PIN reset (short push of buttons: left-left-right-right-left in the INTRO-Info-menu) changes your personal PIN back to '00'. The PIN reset is successful when the displayed time disappears for a second and then comes back on. All other settings remain unchanged.

Switching the Lubrication System On

To switch the lubrication system on (refer to figure 1), keep the ON / OFF / SELECT button pressed until the indication (--) on the display is replaced by an indication of the remaining volume (99% VOL with a new PRO LC unit) and the green LED starts blinking.



figure 1

Switching the Lubrication System Off

To switch the lubrication system off (refer to figure 2), keep the ON / OFF / SELECT button pressed until the display no longer indicates the remaining volume - % VOL - but indicates (--) instead. When the lubrication system is switched off, all of the settings are saved. This means that if you start the lubrication again, it will take up the operation at the point where it had been switched off.

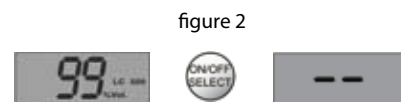


figure 2

Operation Status

LED	Signal	Signal Length	Explanation
green	flash	every 10 seconds	operation (OK)
red	flash	every 3 seconds	error / malfunction
green and red	flash	every 3 seconds	PRO LC - unit empty
green	light	permanently	Lubricator is discharging
green and red	none	none	Lubricator switched off or battery low

Troubleshooting Guidelines

Display shows	Malfunction	Possible cause	Corrective Action
EO	Lubrication system has been switched off	Excess motor current of the perma MP - 6	Replace perma MP - 6 distributor
F 1 to F6	Error at the displayed lubrication point	Excess motor current of the lubricator motor caused by a blocking of the displayed outlet	Clear the blockage and acknowledge the fault by pushing and holding down the ON/OFF/SELECT or SELECT button
E2	Lubrication system has been switched off	Outlets of distributor not correctly recognized	Replace distributor
E3	Lubrication system has been switched off	Timeout while activating distributor Connection cable damaged	Replace distributor Replace connection cable
E4	Lubrication system has been switched off	Drive mechanism of the lubricator is defective	Replace the drive unit of the lubricator
E5	Outlet configuration missing	Outlets were not activated	Activate desired outlets (Turn off power supply on PRO C before you acknowledge error messages)
LC	Lubrication system does not detect the PRO LC - unit	No PRO LC - unit installed	Install an PRO LC - unit (Observe the Operating Instructions of the lubricator)
LO (Only with PRO)	No power supplied to the lubrication system	No power supplied to the lubricator	Establish a power supply (Observe the Operating Instructions of the lubricator)

Technical Data

	PRO 250	PRO 500
Volume of the PRO LC - unit	250 cc	500 cc
Discharge period	1 day to 24 months	1 day to 12 months
Discharged volume per lubrication impulse	0.5 cc	
Application temperature	-20° C to +60 °C / -4°F to +140°F	
Maximum pressure build-up	25 bar / 360 psi	Combination of these Maximum Values can only be realized by temperatures of =20°C/ 68°F. At lower temperatures, the application is limited according to the diagram below.
Maximum tube length (inner Ø5mm)	5 m	
Lubricants	Greases up to rated consistency NLGI 2	
Power supply (0° C to +60 °C / +32°F to +140 °F)	Battery set PRO B (3 V alkaline manganese, not rechargeable)	
Power supply, low temperature (-20°C to +60°C / -4°F to +140°F)	Battery set PRO B PLUS (3 V lithium, not rechargeable)	
Connection thread	G 3/8 outside - G1/8 inside	
Protection class	IP 54	