

Movi-lub
LUBRICADOR DE CADENAS
CHAIN LUBRICATOR
MANUAL DE USUARIO / USER MANUAL

Permite lubricar la cadena de la bicicleta de manera rápida y controlada, en cualquier momento y sin necesidad de detener la marcha. ¡NO SE DETENGA!

Minimiza los problemas producidos por falta de lubricación en cadena y piñones.

Aumenta la vida útil de cadena y piñones mediante una lubricación más eficiente.

Se incluye todos los componentes necesarios para la instalación.

Peso neto aproximado del sistema completo (no incluye peso del aceite): 66 gramos.

Capacidad del recipiente de aceite: 14 ml.

Permite lubricar la cadena 8 veces.

Utilizar con aceites de baja viscosidad.

Consultar con el proveedor si la configuración del descarrilador en su bicicleta permite la instalación de la boquilla de aplicación de aceite.

Lubricates the bicycle chain quickly and controlled at any time and without a halt. DO NOT STOP!

Minimizes the problems in chain and sprockets caused by lack of lubrication.

Increases the useful life of chain and sprockets by a more efficient lubrication.

All necessary components for installation are included.

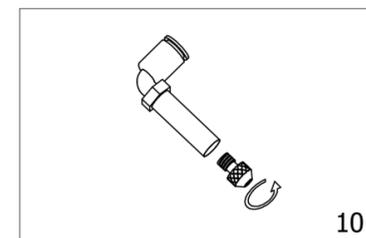
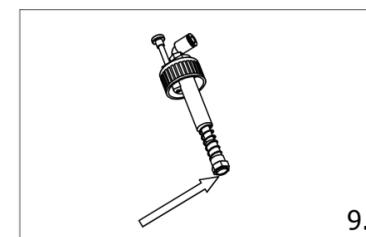
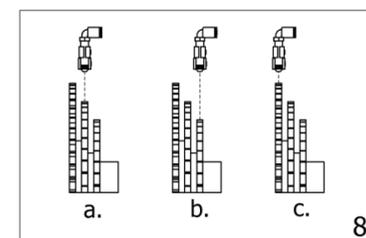
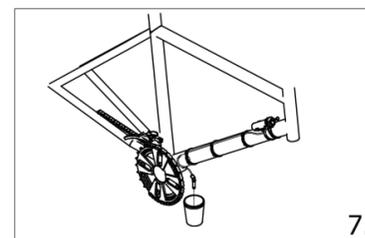
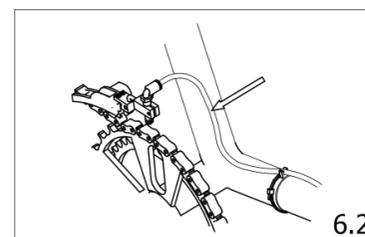
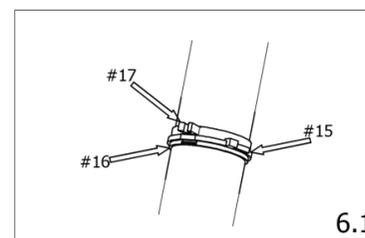
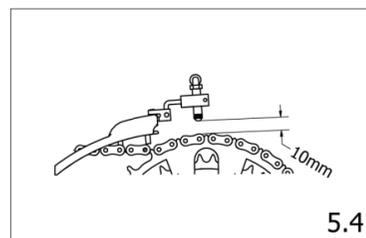
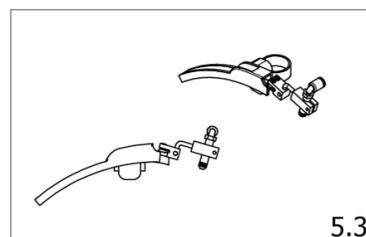
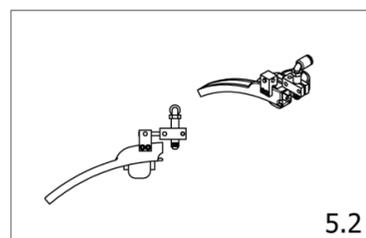
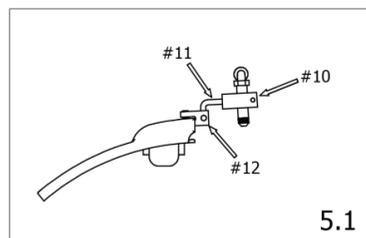
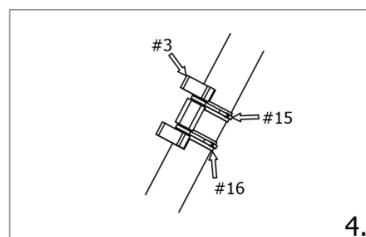
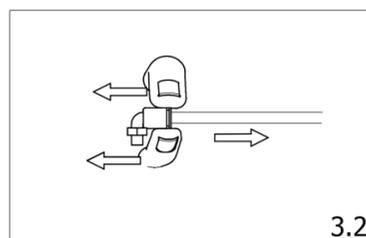
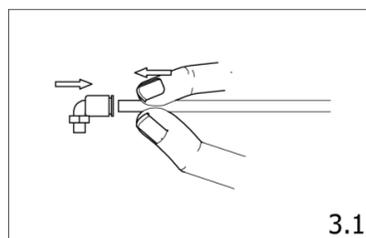
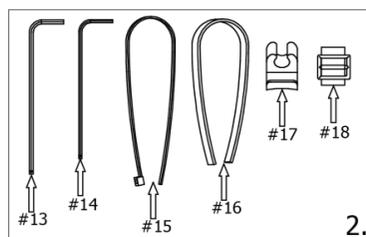
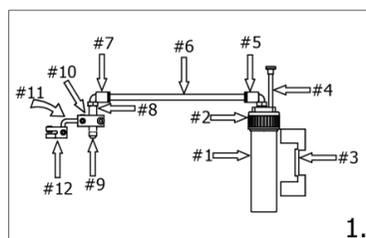
Approximate net weight of the entire system (does not include the weight of oil): 66 grams.

Oil container capacity: 14 ml.

Allows to lubricate the chain 8 times.

Use with low viscosity oils.

Consult the dealer if the front derailleur configuration on your bicycle allows the installation of the oil nozzle.



The bicycle chain lubricator *Movi-lub was designed to allow the cyclist to lubricate the chain at any moment without the need to stop. This will reduce the possibility of having problems in the transmission system due to lack of lubrication.

To ensure an appropriate lubricator use, take into account the following:

- **Hose length must not exceed 850mm.**
- **Low viscosity oil must be used.**
- **To obtain appropriate chain lubrication, the oil must be applied five times consecutively.**
- **Container's refill must be at the maximum indicated level, which is 14 ml of oil.**
- **If room temperature is low and depending on the oil used, the increase on viscosity could cause application inconsistencies.**

1. Lubricator main components (Fig. 1).

- #1. Lubricator oil container.
- #2. Lid. Pumping system included.
- #3. Bracket lubricator for bike frame.
- #4. Pumping stick.
- #5. Hose quick connect fitting.
- #6. 1/8" diameter hose.
- #7. Hose quick connect fitting.
- #8. Nozzle Valve.
- #9. Nozzle.
- #10. Bracket for nozzle valve.
- #11. 90 degree arm brace to align oil application.
- #12. Bracket attachment for front derailleur.

2. Additional Components Included (Fig. 2).

- #13. 2 mm Allen key (1 pc.) for support screws #10 and #12.
- #14. 2.5 mm Allen key (1 pc.) for support screw #10.
- #15. 8" long plastic ties (6 pc.) to secure the bracket #3 and mounting brackets #17 to bicycle frame.
- #16. Rubber strips (6 pc.) to place on the bicycle frame at the points where brackets #3 and #17 are installed.
- #17. Bracket (4 pc.) to secure hose to bicycle frame.
- #18. Velcro ties (1 pc.) to secure the oil container #1 to bracket #3.

3.Operation of quick connect fittings.

First be careful when inserting or removing the hose from the fitting, make sure to clean both the fitting and the hose to prevent debris from entering the system and obstruct the application nozzle.

These fittings are rotate able to allow you to place the hose in the correct position according to installation.

- To insert the hose (Fig. 3.1) hold it with your finger as close as possible to end and push inward. The hose should be inserted approx. 9mm into the fitting to prevent oil leakage.
- To remove hose (Fig 3.2) the outer ring of the fitting should be pushed back simultaneously while pulling the hose out.

Warning: Do not pull only on the hose when trying to disconnect, this could damage the inner seal of the fitting and the hose.

4.Installation of Lubricator Bracket (Fig 4).

- Find the correct position on the bike to place the lubricator for easy use.
- Clean the required area and place 2 strips of rubber (#16) in the chosen position and aligned with the slots for plastic ties of the bracket (#3).
- Place bracket (#3) on the rubber strips and place plastic ties (#15) into slots. Do not fully tighten until whole system is installed and you are happy with bracket position.

5. Installation of components for the oil outlet nozzle (Fig 5.1, 5.2 and 5.3).

- Depending on the front derailleur shape, place the components as shown in Figures 5.1, 5.2 and 5.3. Install support holder (#12) to derailleur and loosely tighten. Insert 90 degree arm brace (#11) into the derailleur support holder (#12) and attach the bracket of the nozzle (#10), lightly tighten all screws to perform an initial alignment of the nozzle with respect to the chain. The nozzle should be separated at approx. 10mm from the chain when its on the outer ring (Fig 5.4).

- The final adjustments will be made once all components are installed for verifying alignment.

6. Installation of the oil delivery hose.

- According to the lubricator position, determine the shortest path possible to connect the hose from the lubricator to the application nozzle. The total length of the hose must not be greater than 850mm.

- Connect one end of the hose to the lubricator and place it on the bracket (#3) previously installed. Take the hose along chosen path to attach the nozzle to verify the needed length of the hose, and also to decide the points where the hose brackets (#17) will be installed. It is important to install 2 hose brackets one near the lubricator and the other one near the nozzle in order to correctly route the hose.

- According to the above, distribute the clamping brackets for the hose (#17) along the route. For installation of the supports, (Fig 6.1) place a strip of rubber (#16) on the bike frame, then position the bracket and secure with plastic tie (#15). Do not completely tighten the ties until you are sure the bracket is in the correct position. Insert the hose into the receptive supports. Make sure the hose does not become bent or folded. In any way this can cause oil flow restriction.

- Take the other end of the hose to the fitting of the nozzle valve and position the front derailleur on the outer chain ring. At this point the hose should not be completely tight (Fig. 6.2), but must have a little extra length to allow free movement of the derailleur and in turn serve as a backup in case of hose has to be cut due to wear, in sections where it attaches to fittings.

- Cut hose little by little as needed. Attach hose to nozzle valve, position the derailleur on all the chain rings and recheck current progress. Make adjustments as needed.

- Once all components are properly installed make sure all plastic ties are fully tightened.

7. Starting the hydraulic system (Fig. 7).

- Fill container to maximum level, close container and leave the movi-lub container out of its support.
- Remove the nozzle valve (#8) of the support (#10).
- Place an empty container under the nozzle to prevent oil spills.
- To pump oil push the pumping stick (#4) to its lowest point and release it, to allow the oil to be pumped. Repeat this as many times as necessary to remove all air pockets from the system and to drain enough oil through the nozzle until you have a uniform application.
- Reinsert the nozzle valve in its holder and place it so that the nozzle is at least 10mm from the chain when it is placed on the outer chain ring (Fig 5.4). Fix the nozzle valve by tightening the screw just enough so that it does not slide into holder.

8. Alignment of oil application.

- Once all components are installed and system is purged, put the derailleur on the middle chain ring (Fig. 8a). Align linear and angular the nozzle so that the oil flows directly on the chain. Partially tighten all the screws so that the parts do not come out of adjustment during the 2nd alignment. Make an application of oil to see where the oil flows, adjust as needed and make a second application to verify. Repeat the above steps until you get the proper fit and oil flow direction you desire.

- Move the derailleur to the inner chain ring (Fig 8b), make another application, check and adjust as needed.

- Move derailleur to all chain rings to ensure that the oil always flows on the chain.

- Fully tighten all screws, so that the parts are not out of adjustment during the first outing on the bike.
- After the first outing, check the alignment of the oil application with the chain is correct and tighten screws again. Re-adjust again if necessary. Once you have the correct fit you should check the screws occasionally. In normal use of the bike due to excessive vibrations screws may slightly loosen.

9. Maintenance.

The maintenance required for the system is basically to prevent foreign particles entering the system.

- If you need to disconnect a hose from one of the fittings, make sure to clean both components. This will prevent contaminants from entering the system which could clog the nozzle.
- Check and clean the container periodically to remove buildup of foreign material that could clog the oil filter.
- Check periodically the oil filter and clean if necessary (Fig 9). Use paper napkins or toothbrush to remove the accumulated dirt particles on the surface. **Do not attempt to disassemble, it is not necessary.**
- Occasionally check the correct alignment of the oil application on the chain and tightening the screws on the respective supports, adjust if necessary.
- The routine cleaning of sprockets and chain should be kept at least after every use made. It is advisable to apply penetrant biodegradable fluid *Movi-lub before washing to ensure easy and efficient removal of contaminants.
- Cleaning procedures for lubricator components should be made using paper napkins. Do not use fabric pieces for cleaning.**

10. Problems Solving.

Problems	Cause	Solutions
Application of oil is not uniform.	Air in the system.	Purge by activating the pumping stick.
	Oil filter obstructed.	Clean.
	Minimum oil level.	Refill.
There is no oil application	No oil in the container.	Refill container.
	Obstructed nozzle/filter.	Unscrew nozzle (Fig. 10) and check for obstruction. Clean if necessary. Be sure to purge before reconnecting. Check if the filter is broken or obstructed.
	Hose bent or folded.	Check the hose and repair the affected section.
Oil does not flow directly on the chain.	Loose nozzle brackets.	Check tightness of all screws, readjust alignment.
	Hose at the nozzle has too much tension.	Re accommodate hose to release strain at any derailleur position.
Difficulty to maintain oil application alignment.	Excessive play in the front derailleur pivots.	The derailleur may need to be replaced.

11. Limited Warranty.

The warranty offered for this product is against faulty manufacturing, and covers for a 1 year period after purchase. It applies only to original purchaser of the product.

The warranty does not cover damage caused by misuse, abuse, accidents, failure to follow precautions, improper installation, maintenance or the deterioration of the container, hose or fittings.

The warranty does not cover damage or loss, incidental or consequential expenses related to the misuse of the product.

Second hand items are not covered by this warranty.

The application of the warranty is limited to countries where the product is marketed through authorized dealers.