

INSTRUCTION

Hand Oil Pump

HOP-200 ITEM No.881243

HOP-200W ITEM No.881247



<HOP-200>



WARNING

Prior to operating this pump, be sure to read this operation manual for safety. After reading the manual, please keep it at hand any time for your quick reference.

YAMADA CORPORATION

- Preface

Thank you very much for purchasing Yamada Pump.

This product is flexibly applicable to any kinds of pail including 20L cans that are commonly available in the market.

This product can be used outdoors where no compressor is available.

This product is designed for oil transferring. Therefore, it cannot be used for grease.

- For Safe Operation

This document describes the items that are important for the user to operate this product safely, correctly, and efficiently.

Before operating this product, read this manual thoroughly, in particular, "Warnings and Cautions" at the beginning of this manual, with a good understanding of its contents. Keep this manual carefully in an easy-to-access place so that the user may refer to it whenever necessary.

- Warnings and Cautions

To use this product safely, be sure to observe the contents of the following description. In this manual, warnings and cautions are indicated by using symbols. These symbols are intended to prevent death or serious injury that may be caused to the operator or those who are around the product and damage that may be caused to the articles that are around the product, as well as to use the product safely and correctly. Each symbol is indicated and has a meaning as shown below. Read the description with a good understanding of its contents.



WARNING : This indicates the existence of potential hazard which, if not avoided, will result in death or serious injury.



CAUTION : This indicates the existence of potential hazard which, if not avoided, may result in bodily injury or in physical damage.

To indicate the contents of danger and damage, the following symbols are used together with the above indications.



This symbol indicates an act that is prohibited (prohibition). The concrete contents of prohibition are indicated by the side of the indication.












This symbol indicates the contents that must be observed. The concrete contents of observance are indicated by the side of the indication.

- Precautions on Use

The following warnings and cautions are very important. Be sure to observe them.



WARNING

[Operating method]

-  - The operator and maintenance engineer should read the operation manual thoroughly before operating the pump and performing maintenance in respect of this pump.
-  - Use of the product for any purpose other than those specified in this manual may result in personal injury or property damage.
-  - Modification of this product may lead to death, bodily injury, or a failure. Do not modify it in any case because it involves a risk.
-  - Some materials can be detrimental to the environment.
Be sure to discharge to a container. Never discharge directly to the ground.
-  - Gasoline is a high volatile fuel. Do not use it to clean the pump in any case, otherwise ignition or explosion may be caused.
-  - Always wear proper safety equipments (gloves, safety glasses, safety shoes, etc.) when operating this product.
-  - In case of contact of the liquid with eyes, immediately consult an ophthalmologist and take a proper treatment. After contact with skins, wash immediately with water and soap. Otherwise, it will cause inflammation.
-  - Do not operate the handle when the end of the hose is facing toward a person.
-  - Be careful not to drop this product when lifting it up to replace a pail. Catching a falling product may cause hand injury by its edge.

CAUTION

[Operating condition]

-  - For safe operation, read and understand all cautions described in this manual thoroughly before operating the pump.
-  - If you have lost or damaged your instruction manual, please contact us or our distributor.

[Installation and piping]







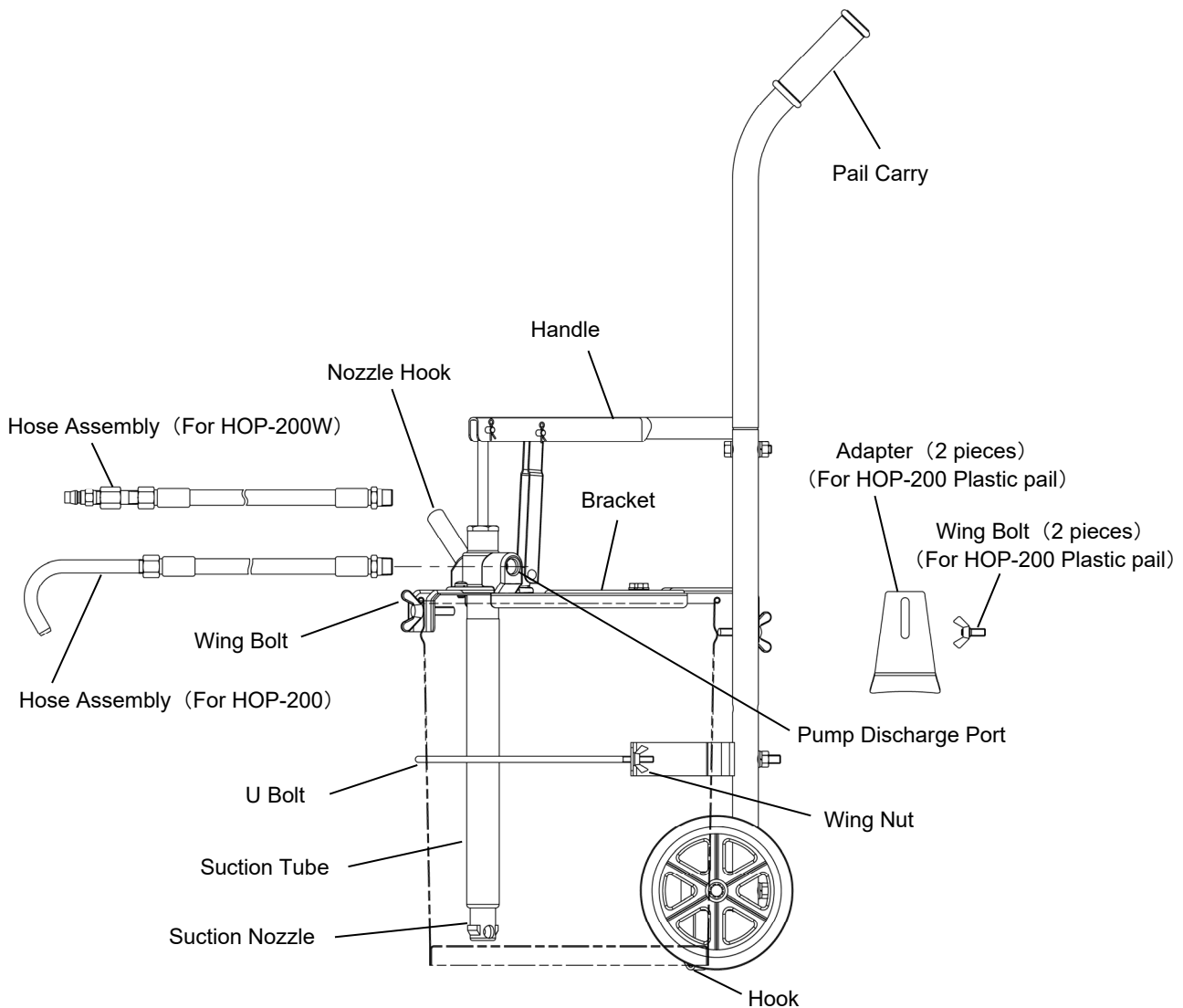
-  - If any abnormality is found during operation, immediately stop the machine. Do not restart until the cause has been identified and corrected.
-  - This is a lubricant oil pump suitable for lubricant oil such as gear oil, motor oil, and machine oil.
DO NOT use with gasoline, light oil, heating oil, or any other solvents.
-  - Be sure to establish a grounding connection (sold separately) to prevent shock caused by static electric spark.
-  - Do not use or leave this product in a slope or any unstable locations. It will make the product and the container fall and will cause spillage, which will pollute the environment.
-  - When installing the pail to the product, be careful not to get your hands caught in the edges of the product parts.
-  - Liquid remaining inside or on the surface of the pump may spill out by inserting or removing the pump into/from a pail. Be very careful not to get your clothing dirty.

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1. Names of Part

1.1 Names of Part



1.2 Contents of Package

This machine is packaged in a corrugated fiberboard case.

Please make sure no damage during shipment and no missing accessories after unpacking as soon as possible.

Please make sure no loose screws, piping connections, and fastener components.

Please retighten if any screws, piping connections, and fastener components are loose.

2. Preparations before Operation



- Apply sealing compound or sealing tapes to the male screws and tighten tightly when the pipes are connected.
Be careful not to allow the sealing materials to enter the piping.
Do not apply the tip of the terminal (two thread ridges) to maintain conductive property of the ground.
(However, no applying is necessary if it will be connected to the hose union.)
Check that there is no leakage or electrical continuity in each part after connecting the piping.

<Assembly of Pail Carry>

Properly assemble the pail carry by referring to “2. Assembly Procedures” in the Assembly Instruction (Doc. No. OSA 136P).

<In case of installation of this product to metallic pail>

- 1) Push the suction nozzle into the suction tube.
- 2) Put the pump through the opening of the pail filled with oil. Keep inserting it into the pail until the top the pail reaches the bracket. At this point, if the suction nozzle does not touch the bottom of the pail, it will gradually go down to the bottom when the handle is repeatedly being moved up and down.
- 3) If the width of the bracket does not fit the pail, remove the two bolts from the bracket and adjust the position of the bracket. Also, if the pump does not fit the opening of the pail, adjust the position of the pump by removing the two screws. (Fig.1)

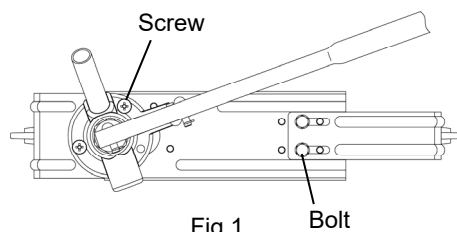


Fig.1

CAUTION



- Do not put the pump into the pail when the suction nozzle is pulled out. Otherwise, the suction nozzle will be bent or fallen down when strongly contacting the bottom.



- When using the pump for a pail with only a small amount of oil, pull the suction nozzle out until the side hole of the suction nozzle reaches below the oil level.

- 4) Tighten the two wing bolts on both sides of the bracket, and fix the bracket to the pail.

CAUTION



- When using the pump, be sure to fix the bracket to the pail; otherwise, it will cause injuries.

- 5) Connect a hose to the discharge port of the pump.
- 6) Hook the hook on the wheels of the pail carry onto the bottom of the pail. Put a U bolt onto the pail body and fix it by tightening the two wing bolts.

<In case of installation of this product to plastic pail>

- 1) Push the suction nozzle into the suction tube.
- 2) Put the pump through the opening of the pail filled with oil. Keep inserting it into the pail until the top the pail reaches the bracket. At this point, if the suction nozzle does not touch the bottom of the pail, it will gradually go down to the bottom when the handle is repeatedly being moved up and down.
- 3) If the width of the bracket does not fit the pail, remove the two bolts from the bracket and adjust the position of the bracket. Also, if the pump does not fit the opening of the pail, adjust the position of the pump by removing the two screws. (Fig.2)

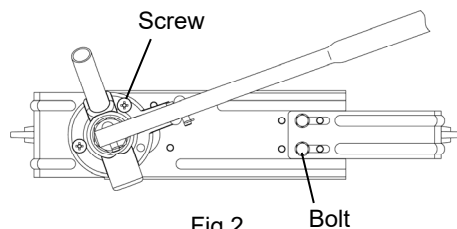


Fig.2

CAUTION



- Do not put the pump into the pail when the suction nozzle is pulled out. Otherwise, the suction nozzle will be bent or fallen down when strongly contacting the bottom.



- When using the pump for a pail with only a small amount of oil, pull the suction nozzle out until the side hole of the suction nozzle reaches below the oil level.

- 4) Remove the two wing bolts from the bracket. (The wing bolts cannot be used once removed).
- 5) Tighten the attached wing bolts by pushing the attached adapters to the sides of the pail. (Fig.3)



 CAUTION	
	- When using the pump, be sure to fix the bracket to the pail; otherwise, it will cause injuries.



Fig.3

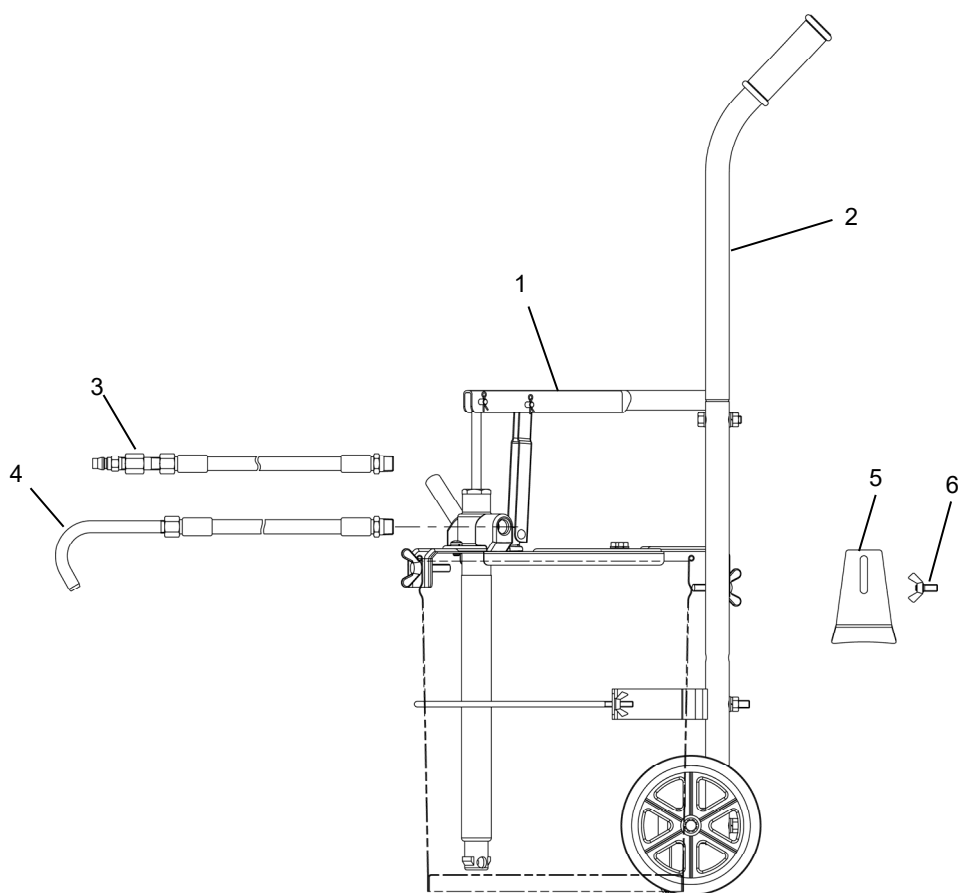
- 6) Connect a hose to the discharge port of the pump.
- 7) Hook the hook on the wheels of the pail carry onto the bottom of the pail. Put a U bolt onto the pail body and fix it by tightening the two wing bolts.

3. How to Operation the Pump

When moving the handle up and down, the oil is discharged from the end of the nozzle.

When stopping discharging the oil with the handle in the raised position, insert the end of the nozzle into the nozzle hook on the side of the pump, push the handle down to put the oil remaining inside the hose back to the pail.

4. Parts Disassembly Drawing and Parts List



No.	Parts No.		Description	Q'ty
	HOP-200	HOP-200W		
1	855471	855471	Pump Assembly	1
2	855470	855470	Pail Carry	1
3	—	803785	Hose Assembly	1
4	802823	—	Hose Assembly	1
5	717547	—	Adapter	2
6	687354	—	Wing Bolt	2

5. Main Specifications

■specification

Type	Item No.	Weight	Height
HOP-200	881243	4.7 kg	943 mm
HOP-200W	881247		

■Pump Performance (Reference)

Discharge Volume*	Stroke
60 cc / stroke	110 mm

* is the volume at the nozzle outlet based on the following conditions

Material	Oil temperature	Hose
Gear Oil #150	20 °C	Standard hose

6. Limited Warranty

- If an abnormality occurs during normal operation in accordance with the operating instructions and other operating cautions within the warranty period (12 months after date of purchase) that can be attributed to a manufacturing defect, the defective parts of this product will be serviced or the product will be replaced free of charge. However, this warranty will not cover compensation for incidental damage or any malfunction listed below.

1. Warranty period

This warranty will be valid for a period of 12 months after the date of purchase.

2. Warranty

If, during the warranty period, any of the material of the genuine parts of this product or the workmanship of this product is found defective, and is so verified by our company, the servicing cost will be fully born by our company.

3. Exclusion

Even during the warranty period, this warranty does not cover the following:

- 1) Malfunction arising from use of parts other than manufacturer-specified genuine parts
- 2) Malfunction arising from misuse or operating errors, or lack of storage or maintenance care
- 3) Malfunction arising from use with a fluid that may cause corrosion, inflation or dissolution of the component parts of the product
- 4) Irregularity arising from repair made by other than by our firm, our regional office, dealer or authorized service personnel
- 5) Malfunction arising from modification of the product by other than authorized service personnel
- 6) Wear and tear of parts that must be regularly replaced in the course of normal operation, such as packings, O-rings and hose.
- 7) Malfunction and/or damage due to transportation, moving or drop page of the product after purchase
- 8) Malfunction and/or damage due to fire, earthquake, flood or other force majeure
- 9) Malfunction arising from use of compressed air that contains impurities or excessive moisture, or use of gases or fluids other than the specified compressed air
- 10) Malfunction arising from use with a fluid that causes excessive abrasion or use of lubricating oil other than that specified for this product

Furthermore, this warranty does not cover the rubber parts, or other parts that are subject to wear in normal operation, used in this product and its accessories.

• hoses • packings • cords

4. Parts

Parts for this product will be kept available for 5 years after discontinuation of production. Once 5 years have elapsed after close of production, availability of parts for this product cannot be guaranteed.

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