

INSTRUCTION

HAND GREASE PUMP

HGP-200 ITEM No.881246



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 for purchasing a Yamada Pump. This is a hand operated lever type pump suitable for grease up to NLGI No.0. This product can be mounted directly onto a commercial pail, making it ideal for lubrication work outdoors where a compressor is not available. Use of high viscosity grease will produce air pockets and result in operation failure.

- For Safe Operation

This manual 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.

- Warnings and Cautions

For safe use of this product, be sure to note the following: In this document, warnings and cautions are indicated by symbols. These symbols are for those who will operate this product and for those who will be nearby, for safe operation and for prevention of personal injury and property damage. The following warning and caution symbols have the meanings described below. Be sure to remember their meanings.



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.

Furthermore, to indicate the type of danger and damage, the following symbols are also used along with those mentioned above:






This symbol indicates a DON'T, and will be accompanied by an explanation on something you must not do.



This symbol indicates a DO, and will be accompanied by instructions on something you must do in a certain situation.

- Precautions on Use

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

 WARNING	
[Operating method]	
	- Gasoline is a high-volatility fuel. Do not use it to clean the pump in any case. Otherwise, ignition or explosion may be caused.
	- Some types of grease to be used may contain carcinogens. Read the precautions provided by grease manufacturer thoroughly and handle the grease with care.



CAUTION

[Operating condition]



- This pump is suitable only for grease. Do not use any other solvents.



- Use of high viscosity grease will produce air pockets and result in operation failure. Do not use anything harder than No.0 grease.
If you would like to use high viscosity grease, please contact our business office.

[Installation and piping]



- Always wear proper protective equipments (gloves, protective glasses, protective shoes, etc.) when operating this product.



- In case of contact of the grease 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 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 putting the lid on the grease pail or fixing the lid with a band, pay extra attention not to get your fingers stuck there.



- When lifting the pump up to replace the pail can and so on, be careful not to drop it. If attempting to receive the pump falling to the ground, it may cause injuries on your hands with the edge of the pump.



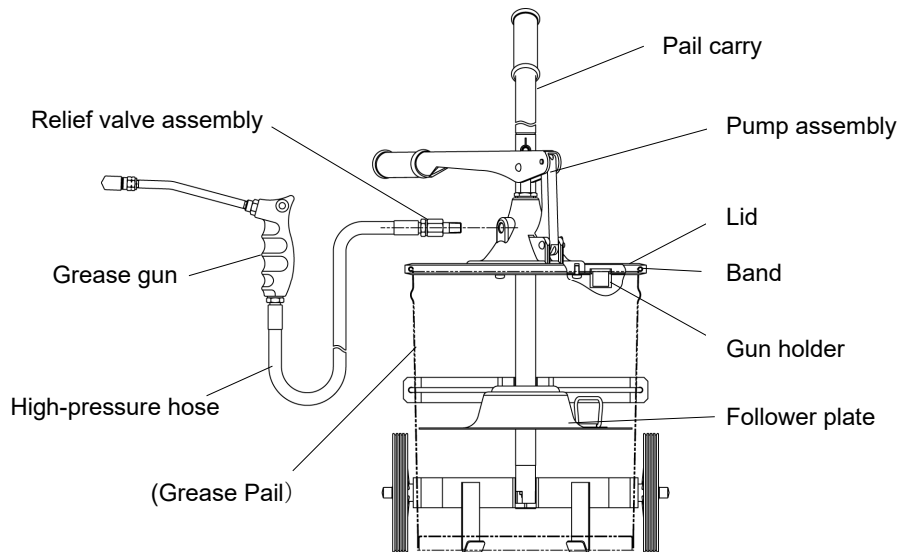
- Be sure to establish a grounding connection (sold separately) to prevent shock caused by static electric spark .

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1. Names of Parts

1.1 Names of Parts



1.2 Contents of Package



The main unit and accessories are packed separately in the box.

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

 CAUTION	
	<ul style="list-style-type: none">- 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. (However, no applying is necessary if it will be connected to the hose union.) Check that there is no leakage from 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).

<Assembly>

Connect high pressure hose and grease gun to the grease discharge port of pump assembly and tighten with a wrench.

<Pail Setup> (Fig.1)

- 1) Remove lid from grease pail.
- 2) Smooth the surface of grease and then place follower plate on it in the proper direction.
- 3) Wipe suction port of pump assembly and insert it into the center hole in follower plate to place lid on grease pail.
- 4) Secure lid by tightening stopper and draw latch. In this time, set lever at appropriate position.
- 5) 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 nuts.

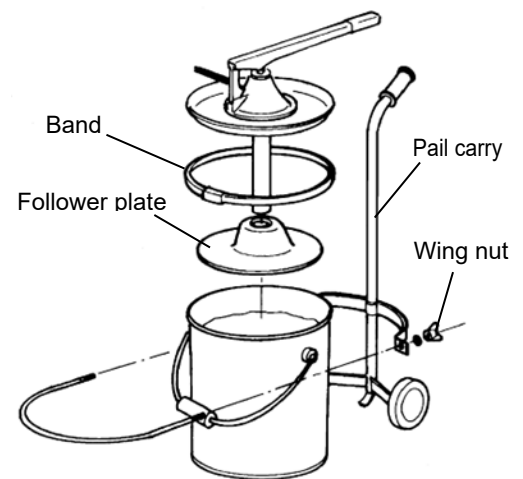


Fig. 1

- 6) When moving the handle up and down for the time being, air-containing grease will be coming out of the high-pressure grease gun. Pour this grease into another container or plastic bag instead of dispensing it to the equipment. Before supplying the grease to the equipment, move the handle further until ensuring that the grease coming from the gun contains no air.

<NOTE>

Air-containing grease is cloudy white.

3. How to Operate the Machine

- 1) Wipe grease gun coupler and grease nipple of equipment you are going to lubricate.
- 2) Press hydro coupler onto grease nipple in axial direction to connect them together. (Fig.2)
- 3) Hold grease gun and slowly move the lever up and down, stepping on the footboard to keep container from moving. When you push the lever down, fresh grease will come out of gun nozzle. Then, you will see old grease oozing out and when you see new grease following it out, stop supplying.
- 4) After lubrication, remove coupler from grease nipple by tilting it sideways. (Fig.3)

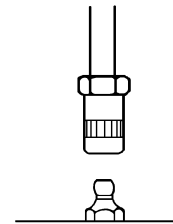


Fig.2

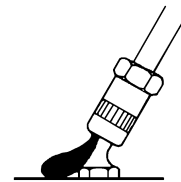


Fig.3

4. Maintenance and Inspection

4.1 Troubleshooting and Corrective Measures

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE MEASURE
Pump delivers no grease	Container is empty.	Fill container or replace grease pail.
	Follower plate is set incorrectly.	Check position and direction of follower plate.
	Pump malfunction	Inspect suction part.
Insufficient flow	Follower plate is set incorrectly.	Check position and direction of follower plate.
	Pump malfunction	Inspect suction part.
Grease leaks from gland	Wear-out of gland packing.	Tighten gland or replace packing.

4.2 Maintenance and Inspection

- If the lever becomes stiff to move, loosen the gland a little, apply a few drops of oil to it and retighten. (Fig.4)
- Check hose periodically and replace it if it is aged or leaking.

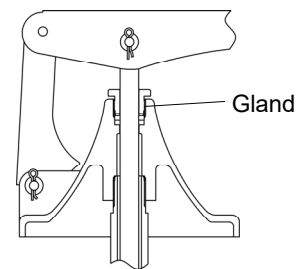


Fig.4

4.3 Disassembly and Assembly

CAUTION



- Gasoline is a high-volatility fuel. Do not use it to clean the pump in any case. Otherwise, ignition or explosion may be caused.

[Disassembly and Inspection of Suction Part]

- 1) Remove high pressure hose.
- 2) Loosen stopper and latch securing lid and separate pump assembly together with lid.
- 3) Unscrew three screws on the back of lid to separate pump assembly from lid.
- 4) Secure knurled section of suction tube in a vise.
- 5) Loosen nut on the lower part of cylinder.
- 6) Unscrew cylinder with a wrench to separately remove piston, valve, packing, tightening screw, and triangle ring. (Fig.5)
- 7) Wash and check each part. Replace damaged or worn parts with new ones.
- 8) Reverse the disassemble procedure to reassemble suction part while being certain that each part is attached in the correct direction.

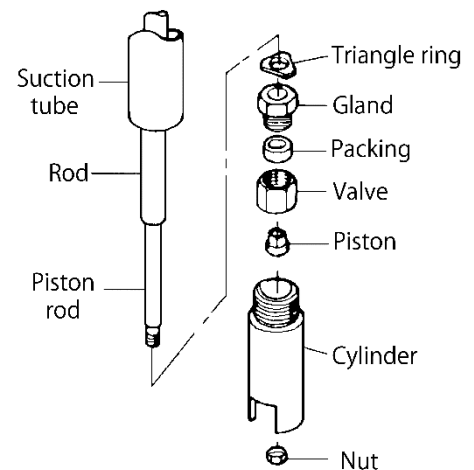
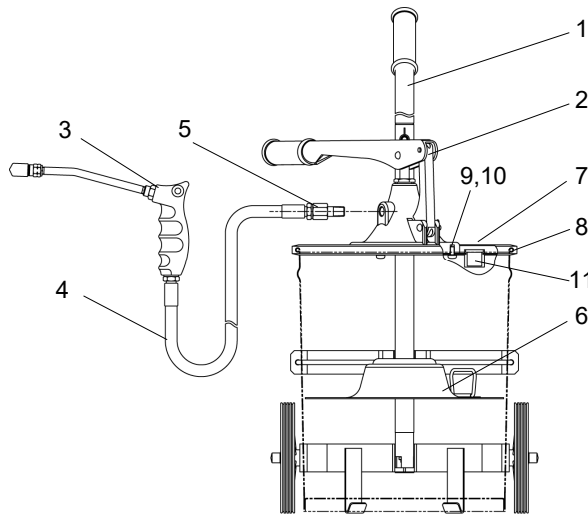


Fig. 5

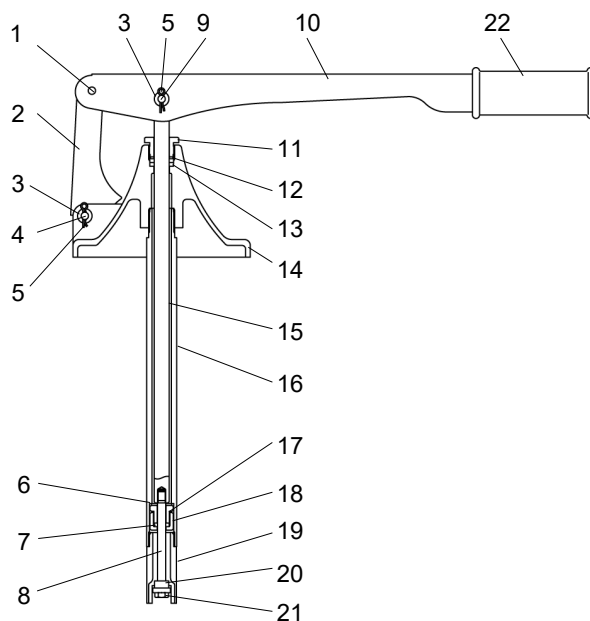
5. Parts Disassembly Drawing and Parts List

5.1 881246 Hand Grease Pump



No.	Part No.	Description	Q'ty
1	855470	PAIL CARRY	1
2	851111	PUMP ASSY	1
3	800601	GREASE GUN	1
4	695046	HIGH-PRESSURE HOSE	1
5	800600	RELIEF VALVE	1
6	801426	FOLLOWER PLATE	1
7	717554	LID	1
8	680456	BAND	1
9	681771	SCREW	3
10	681770	WASHER	3
11	770754	GUN HOLDER	1

5.2 851111 Pump Assembly



No.	Part No.	Description	Q'ty
1	702531	PIN	1
2	703182	LINK	1
3	631012	PLAIN WASHER	2
4	703574	PIN	1
5	680608	SNAP PIN	2
6	703183	TRIANGLE RING	1
7	770332	PACKING	1
8	715805	PISTON ROD	1
9	703580	PIN	1
10	703185	HANDLE	1
11	580994	GLAND	1
12	701755	PLAIN WASHER	1
13	770333	PACKING	2
14	708317	BODY	1
15	707234	ROD	1
16	708315	SUCTION TUBE	1
17	703188	GLAND	1
18	703189	VALVE	1
19	703190	CYLINDER	1
20	715804	PISTON	1
21	627290	NUT	1
22	770494	HANDLE GRIP	1

6. Specification

■Engineering Data

Type	HGP-200
ITEM No.	881246
Height	943 mm
Mass(kg)	7.7 kg
Accessories	800601 Grease gun1 695046 High-pressure hose1 801426 Follower plate1 855470 Pail carry.....1
Option	If a grease nipple is located on narrow or hard-to-reach spaces or if a grease nipple is pin type or button head type, special micro hoses are available. Please purchase it separately. • 850664 Micro hose assembly (SPK-1C) • 855205 Micro hose assembly (SPK-2C) • 850666 Micro hose assembly (SPK-3C)

Above conditions		Pump outlet pressure	25 MPa
Material	Grease NLGI-No.0	Delivery	3.2 g/stroke
Grease Temperature	20 °C	Stroke	38 - 43 mm

7. 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 use with incorrect voltage.
- 8) Malfunction and/or damage due to transportation, moving or drop page of the product after purchase
- 9) Malfunction and/or damage due to fire, earthquake, flood or other force majeure
- 10) 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
- 11) Malfunction arising from use of excessively abrasive material or of inadequate grease.

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

• 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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