SKIDRIL

HYDRAULIC POWER UNIT

MODEL P100

OPERATING MANUAL

CAUTION

FOR SAFETY PURPOSES, READ THIS MANUAL THROUGHLY BEFORE ATTEMPTING TO USE THIS POWER UNIT. FAILURE TO ADHERE TO OPERATING PROCEDURES MAY CAUSE DAMAGES. ALWAYS KEEP THIS MANUAL IN AN EASILY ACCESSIBLE PLACE

FOREWORD

This manual provides rules and guidelines which will help you to use this machine safely and effectively. You **MUST** familiarize yourself with the functions and operations by reading this manual thoroughly before you begin using this machine. For your safety, it is especially important that you read and observe all precautions in this manual and labels on the machine. The precautions **MUST** be followed strictly at all times when performing operation and maintenance. Failure to follow the guidelines and safety alerts in the manual and on the machine, or by using this machine in alternative ways from the manual may result in system failure or serious personal injury.

Keep this manual with the equipment or in an easily accessible place at all times for future reference. Make sure all personnel involved in working on this machine can consult it periodically. In case this manual should be lost or damaged, immediately contact us or your dealer to purchase a new copy.

We recommend you always use Skidril genuine components and parts. Replacing components and parts from other sources may cause damages to this machine and endanger operators.

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SAFETY ALERT SYMBOLS

	Read and understand all of the instructions and safety information in this manual before operating.
	Wear eye protection.
	Wear hearing protection.
	Wear a dust mask.
	Wear a helmet.
	Wear protective gloves.
	Wear foot protection boots.
	Do not touch oil with your bare hands.
	Unit body will be hot during and after use. Do not touch it with your bare hands.
	Avoid flammable goods from the unit.
	Flammable. There is danger of fire .
	Be careful of exhaust gas. Do not use indoors or in areas with bad ventilation.

SAFETY INFORMATION

To enable you to use this machine safely, safety precautions and labels are given in this manual and affixed to the machine to give explanations of situations involving potential hazards and of the methods of avoiding such situations.

SAFETY ALERT CLASSIFICATIONS

The following safety alert symbols are used to inform you that there is a potential hazardous situation that may lead to personal injury or damage.
In this manual and on machine labels, the following safety alert symbols are used to express the potential level of hazard.

Indicates an imminently hazardous situation which, if not avoided, WILL likely result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

**** Safety alert symbols are to emphasize all operation which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.**

SAFETY ALERTS

DO NOT OPERATE THE MACHINE UNLESS THE FOLLOWING SAFETY INSTRUCTIONS HAVE BEEN THOROUGHLY READ AND UNDERSTOOD!

CAUTION

Read the operation manual and engine manual thoroughly and understand the function and operations well before using this machine.

WARNING

Before operating the equipment, be sure to wear personal protective equipment such as follows:

1. Helmet
2. Protective goggles
3. Protective boots
4. Safety gloves
5. Hearing Protection

WARNING

Do not operate the equipment if:

1. You are taking medication, feeling drowsy, feeling unwell or feeling tired.
2. You are under the influence of drugs or alcohol.
3. Your hands, feet, lower back or other parts of your body are hurt or injured.

* Failure to observe this precaution can result in serious injury or even death.

CAUTION

Do not touch the machine with your bare hands

1. The unit may become hot under continuous running. Do not touch the unit with your bare hands.

2. Tools may become hot under continuous use, make sure to wear gloves before any contact with the tools.

* Failure to observe this precaution can result in burns

WARNING

When lending someone the equipment

Make sure the safety instructions have been thoroughly read and fully understood by the person who is going to use the equipment.

WARNING

Operating in a well – ventilated area

1. Always operate the machine in a well – ventilated area.
2. While operating indoors, always ventilate the room.

Failure to observe this precaution can result in gas inhalation or even death.

DANGER

Fire Prevention: Avoid flammable goods

1. Do not smoke or use any flame near fuel or oil.
2. Stop the engine before refueling and refuel in ventilated area.
3. Don't spill fuel when refueling. If fuel is spilled, wipe it off, clean and dry. Don't over fill.
   Turn the fuel cap tightly after refueling.

Failure to observe this precaution can result in fire or an explosion, which can even cause death.

CAUTION

Do not operate the equipment on a slope.

1. Do not operate the equipment on a slope.
2. When operating the equipment on uneven ground, make sure to lock the wheels.

Failure to observe this precaution can result serious injury

CAUTION

Do not use equipment which does not fit to the flow range of this power unit.

Failure to observe this precaution can result serious injury

CAUTION

Do not change the flow of power unit during operation.

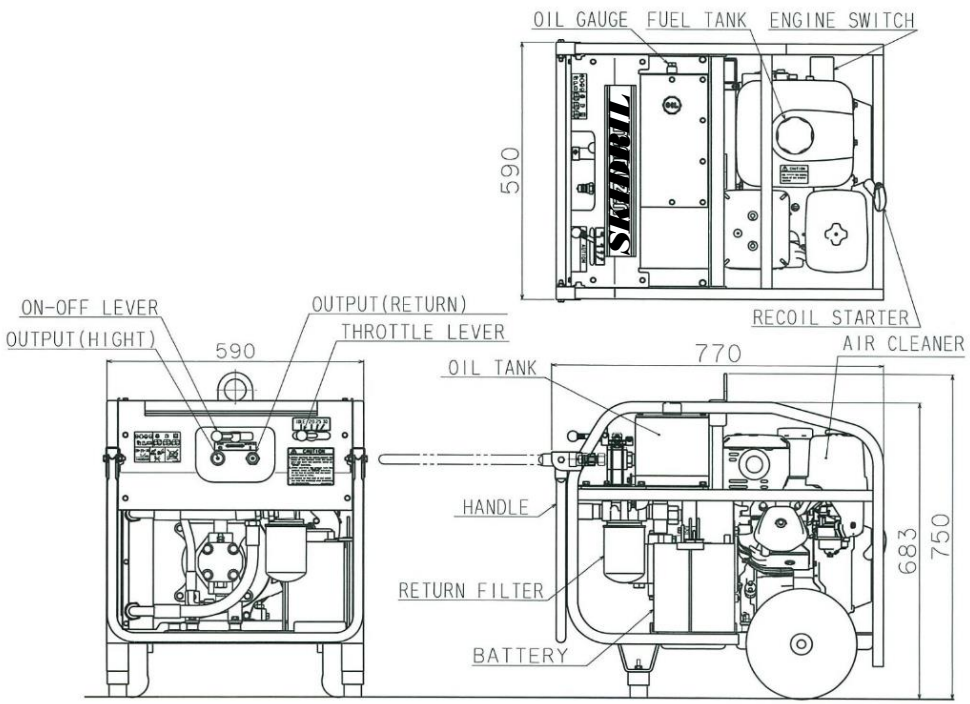
1. Don't change the flow of power unit during operation.
2. When it needs change of flow, always turn "ON/OFF" valve to "OFF position" and change the flow.

Failure to observe this precaution can result serious injury

DO NOT operate this power unit in the following situations:

1. Close to flammable objects or objects which catch fire easily.
2. Inclined ground.
3. Underground, or any places which are not well-ventilated.
4. At high altitudes which exceeds 1,000m *(Consult with us or our service dealers if you have any questions regarding the matter.)
5. For purposes other than stated in this manual.
6. Do not use attachments that don't match the oil flow.
7. Do not change oil flow during operation.

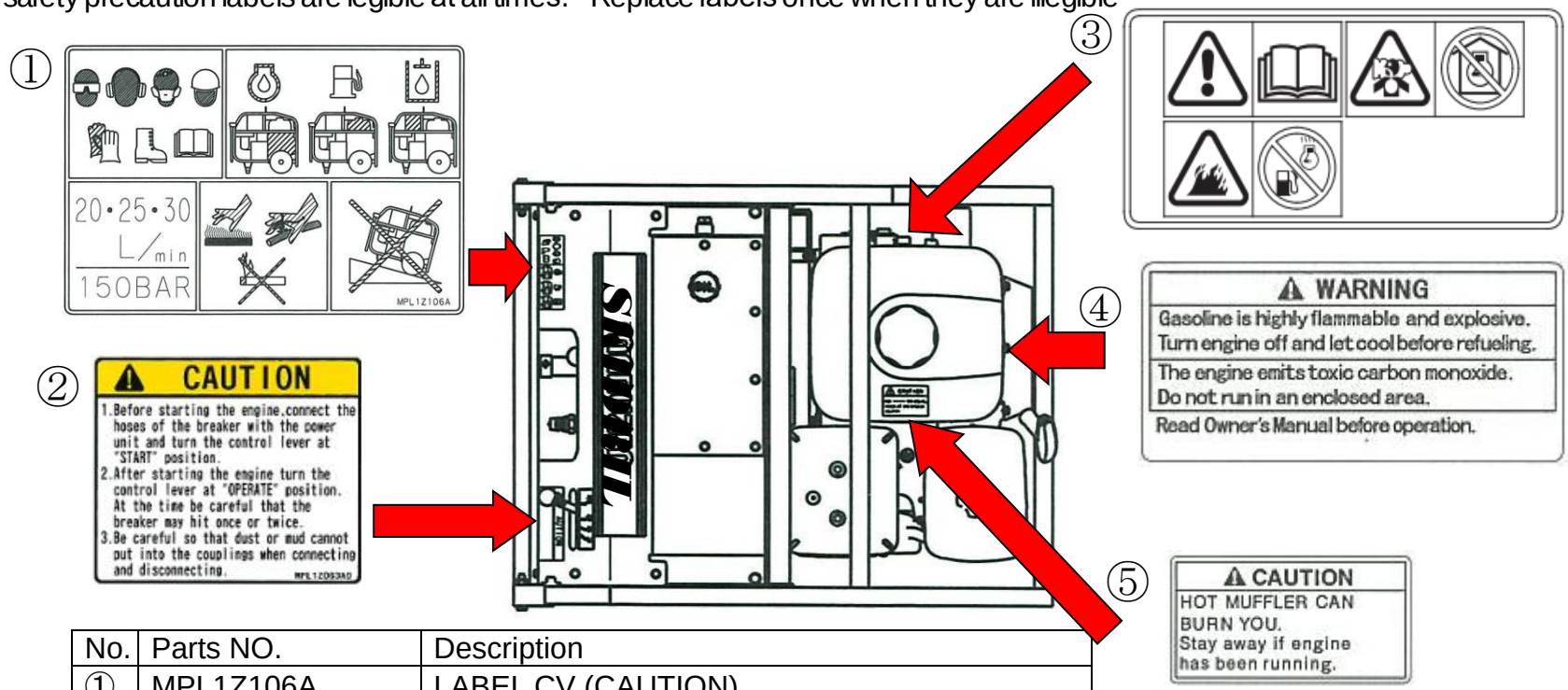
SPECIFICATION & DESCRIPTIONS
MODEL P100



Dimensions	L 770mm x W 590mm x H 750mm
Dry Weight	102 kg
Max Pressure	15 MPa
Oil Flow	20・25・30 L/min （3 mode select）
Engine	HONDA GX390
・Max Output	8.7kW （at 3600rpm）
・Spark Plug	BPR6ES(NGK), W20EPR-U(DENSO)
・Fuel Tank Capacity	6.1 L
・Fuel	Non-lead Gasoline
・Engine Oil Capacity	1.1 L
・Engine Oil	HONDA Genuine Ultra-U General purpose (10W-30) Or API Classification over SE class SAE10W-30
Starter	Electric/Recoil
Battery	Over 12V 24Ah
Hydraulic Tank Capacity	8 L
Hydraulic Oil	ISO VG32 or equivalent
Oil Output Port	3/8” Quick Couplers
Connecting Hose	1/2” 10m Hose
Others	Oil flow changing valve
	Air cooled oil cooler

PRECAUTION LABELS AND POSITIONS

Precaution Labels are to remind you to be extra cautious for potential hazards. It is extremely important that all the safety precaution labels are legible at all times. Replace labels once when they are illegible



No.	Parts NO.	Description
①	MPL1Z106A	LABEL CV (CAUTION)
②	MPL1Z063A	LABEL BP (CAUTION)
③	87519-Z4H-000	MARK,OPERATOR CAUTION (PICTGRAFH)
④	87516-Z4H-010	MARK, OPERATOR CAUTION (ENGLISH)
⑤	87539-Z0J-000	MARK, EX. CAUTION (ENGLISH)

GUIDELINES

Follow these guidelines before using this power unit:

1. Do not use the machine on slopes. If necessary to be used on slopes, make sure the machine's wheels are locked firmly.
2. Make sure that dirt, dust, and mud do not get into hoses while connecting and disconnecting the hoses.
3. When using new extension hose, hydraulic oil level of the tank will be down. Refill the oil of the tank accordingly.
4. Warm up the engine before using if the temperature is under 10℃.
5. Make sure there is no flammable object near the muffler of the exhaust system.
6. Anything related to engine, such as adjustments, storage and etc., refer to Robin Engine owner's manual for more information.
7. In case of sudden hydraulic hose breakage or hydraulic oil spout out of the hose, STOP the power unit right away.
8. Don't change the oil flow when operating the tools. Attachments can move irregularly and might cause accidents.
9. The change of flow must be done only by the throttle lever on front panel. Don't change the flow by engine throttle.
10. When connecting and disconnecting hoses, a small amount of hydraulic oil might slip out. Make sure the circumference is not contaminated by hydraulic oil. Always check the hydraulic oil volume before operating. Refill the oil if necessary.
11. Always check the volume of hydraulic oil and re-fill the oil if it is on short.
12. When stored for over 1 month, drain all the fuel in engine and clean the dirt, dust or mud on engine.
13. When storing P100 for over 1 month, always disconnect the wires of battery. To disconnect the wires, disconnect the minus (－) side first. To connect the wire again, connect the plus (+) side first.
14. Notices for handling of battery
    1) Battery fluid is dilute sulfuric acid. Be careful when handling. If the acid makes contact with hands or

clothes, wash immediately with water. If the acid gets into your eyes, wash your eyes with flowing water for over 15 minutes and seek medical attention.

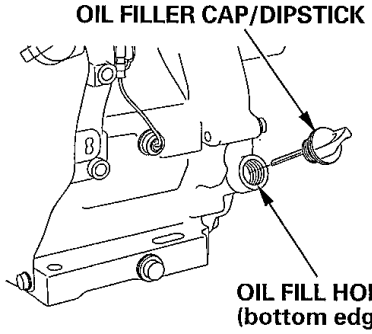
2) Be careful not to connect the electric poles （plus+/minus－） and wires of battery reversely. If connected reversely, serious trouble may occur.
3) After connecting the wires on the poles of battery, always put the covers on them.

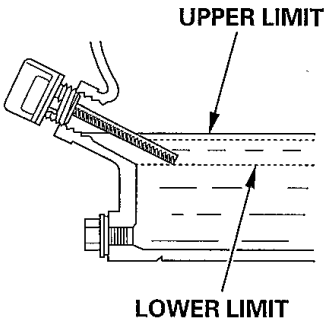
15. . Use the hydraulic tools with this power unit within its specifications.

OPERATION

1. Before Starting The Engine:

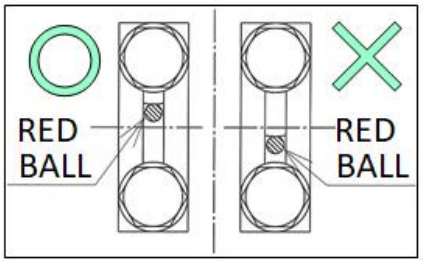
(1) Engine Oil:
Check the engine oil level with oil gauge. Refill engine oil when the oil is below the min. level.





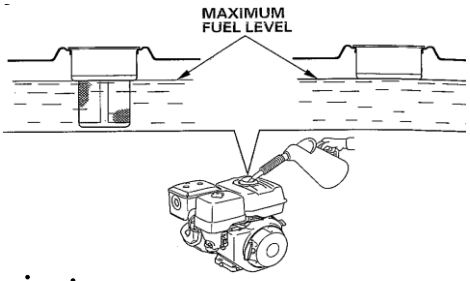
Capacity: 1.1L

(2) Hydraulic Oil:
Check oil indication window for amount of oil. Refill hydraulic oil when the oil level is below the oil indication window. Open the plug on the top of the hydraulic oil reservoir refill hydraulic oil till the oil level reaches the middle of the indication window.
Recommended hydraulic oil: ***ISO VG32 or 46*** or equivalent.
Capacity: 8L



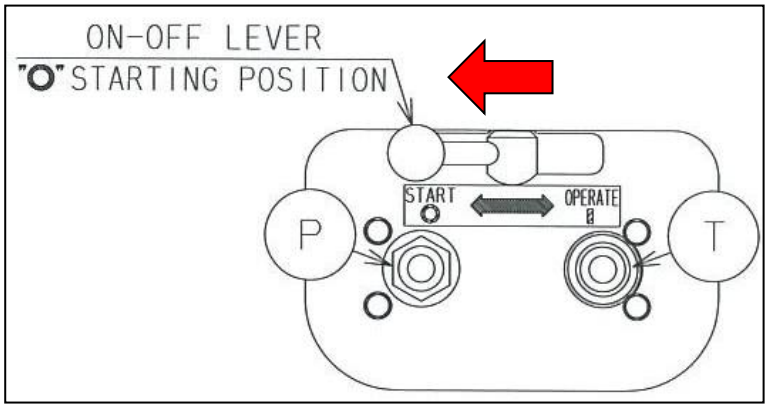
(3) Clean air cleaner element of the engine.

(4) Fuel: Refill gasoline into the fuel tank.
Capacity: 6.1 L
Be careful not to overfill.
Any spilled gasoline should be wiped clean.



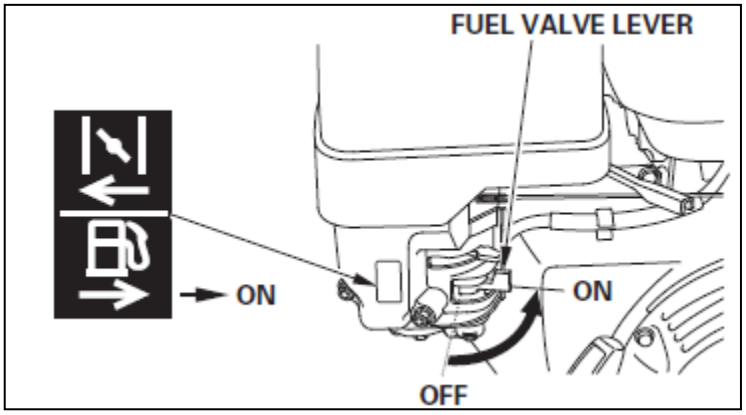
2. Start The Engine:

(1) Attach power unit and equipment (breakers and etc.) with connection hoses before starting engine.
DO NOT start engine without connecting to equipment with hoses.
MAKE SURE control lever indicates to "START ○" position.



(2) Start the operation

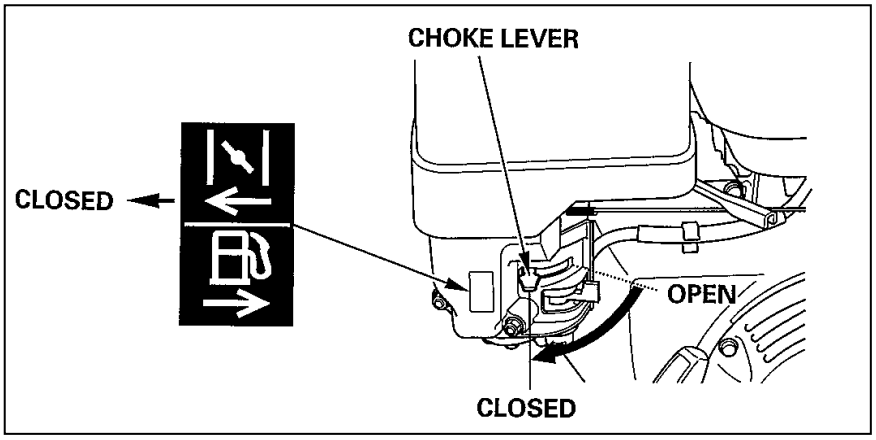
① Open the fuel cock.



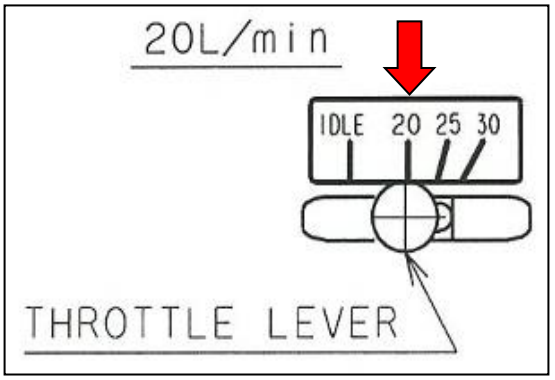
② Close the choke lever.

When to open the choke lever:

- When the weather is cold or when the engine is cold, close the choke.
- When the weather is warm or when starting the engine right after stopping, fully or partially open the choke.



③ Shift the throttle lever from idling position to 20L position.



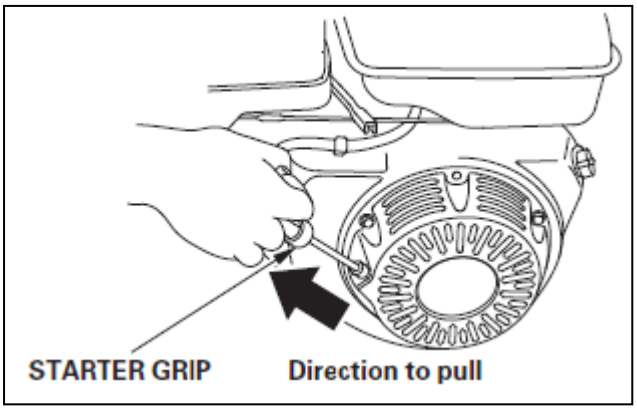
④ -1 **Electric Start**

P100: Turn the engine switch to "START" position and start engine with cell starter.
Move the switch back to "ON" position after engine starts running.

《NOTICE》
If the engine does not start within 5 seconds after rotating the cell motor, wait 10 seconds before restarting.

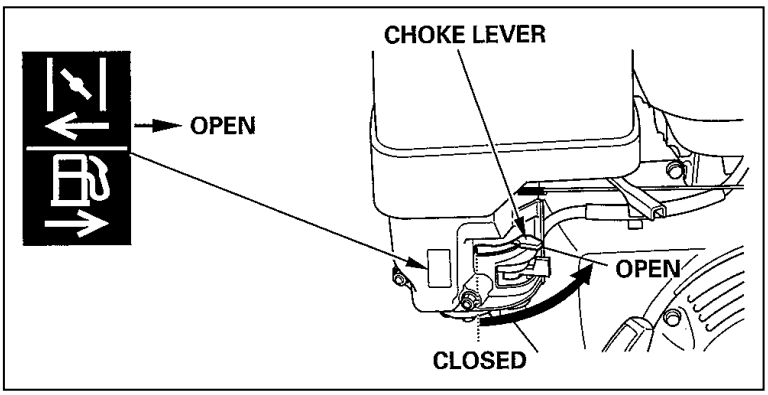
④ -2 **Recoil Start**

Set the engine switch on "ON" position.
Pull start rope gradually. **DO NOT** pull the starter rope rapidly. While the rope is fully pulled, hold it in your hand. **DO NOT** release it from your hand. Hold the start rope till it returns to its original position.



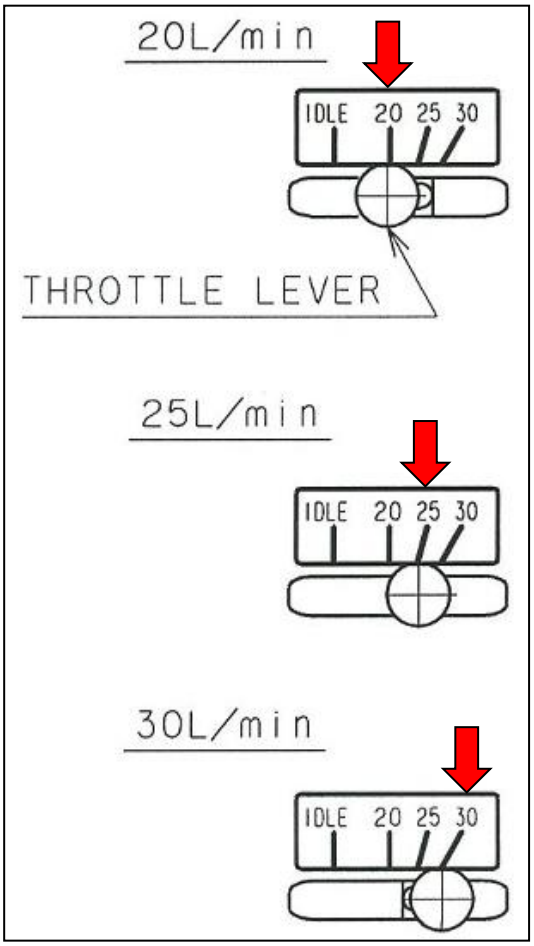
(3) After starting the engine, open the choke lever.

- Open the choke gradually corresponding to the engine's condition. Eventually, the choke should be fully opened.
- When the weather is cold, engine may stop if you open the choke too rapidly.

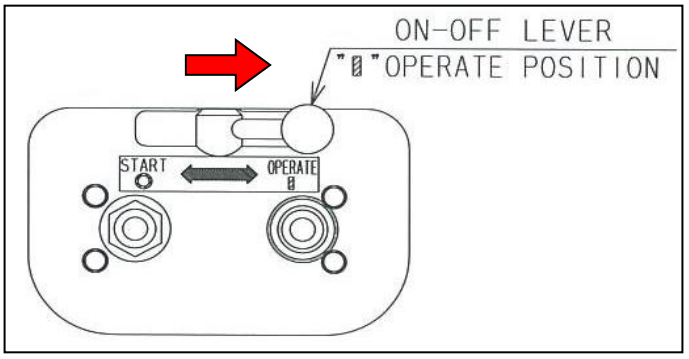


3. Operating

(1) Turn the throttle lever to 20L, 25L, 30L already set up in our factory.



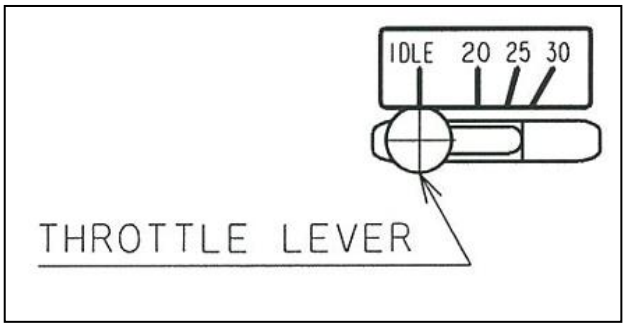
(2) Turn the ON-OFF lever to running position "I" (OPERATE).



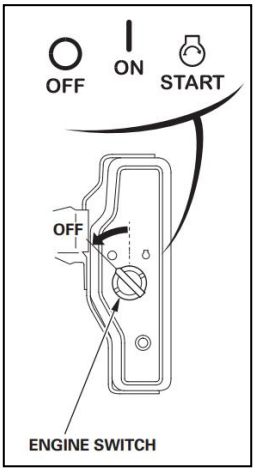
(3) Operate the hydraulic tools. For the operation of each tool, read and follow the operation manuals of each tool.
Read through all the operating manuals of hydraulic tools (breakers and etc) which you intend to use.

4. Stop

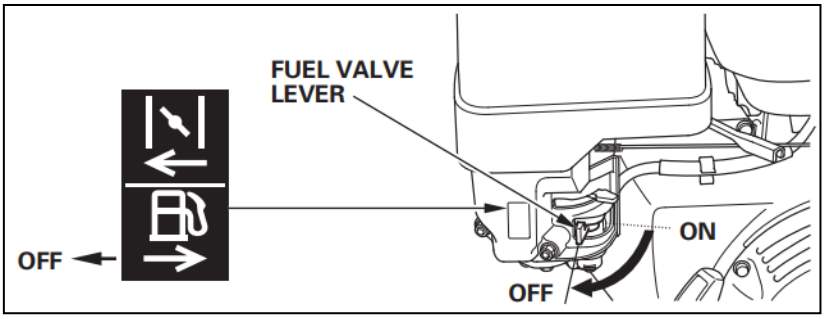
1) Turn the throttle to low speed and let it run for 1 to 2 minutes.



2) Turn the stop switch to OFF (O) position.



3) Close the fuel valve.



4) Detach the hoses which are connected to hydraulic tools (breakers and etc.)

CAUTION

The temperature of some parts of this power unit such as tools and/or extension hoses may go high after being operated. Always wear gloves when operating.

MAINTENANCE

I. Daily Inspections

(1) Check the engine oil level each time before starting the engine.
(2) Make sure hydraulic oil is above the middle line on the indicator window. Refill hydraulic oil if necessary. (Recommended Hydraulic Oil: ISO VG32 or 46 or equivalent)
(3) Clean the element of the air cleaner in the engine.
(4) Make sure there is no oil leakage from the pump or hoses. Tighten up the hose joints and bolts if necessary.
(5) Start the engine, make it runs in low speed (Idling) and make sure there is no abnormal sound and abnormal movement from the engine.
(6) Check all the hoses of tools and extension if they are not scratches, damages or bent on them. Replace the hoses if necessary.

II. Periodic Inspections

For the purpose of keeping the power unit in good condition, make sure the following maintenance items are performed periodically.

	50H	100H	200H
Change engine oil	○*1		
Clean the air cleaner	○		
Clean the spark plug	○		
Change hydraulic oil		○(1)	
Clean the radiator		○(2)	
Clean the strainer			○
Replace cartridge filter			○
Clean the suction filter			○(3)
Clean of hydraulic tank			○
Checking of the voltage of battery*2	1-2 times every month(4)		

*1 first 20 hours

(1) Draw out the hydraulic oil from the drain plug at the bottom of the oil tank.
Changing the hydraulic oil when the color of the hydraulic oil changed or when it smells burnt. Always replace with the same type of hydraulic oil.

(2) Clean dust and dirt caused by radiator blowing away from outside.

(3) Suction filter should be cleaned by non-lead gasoline.

(4) Battery should keep the voltage within 13.5-12V(normal range). Voltage of battery will be decreasing gradually. When electric starter does not start even though recharged to the battery, replace it.

TROUBLE SHOOTING

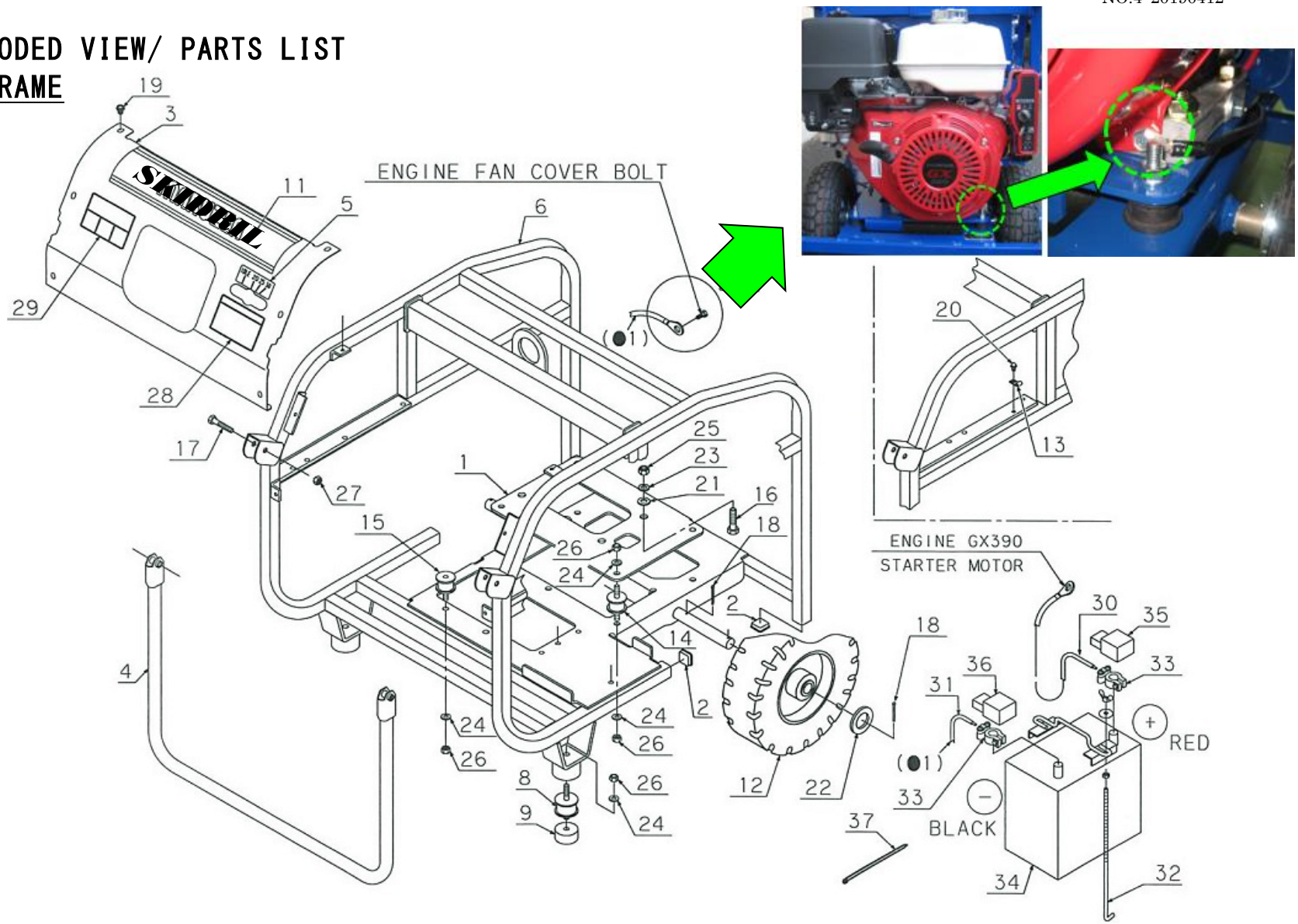
Ask your dealer for service for items with*

Symptoms	Causes	Countermeasures
1. Engine does not start	1. No fuel in fuel tank 2. Bad fuel 3. Air is in the fuel pipe and breaks the flow of fuel into carburetor (after long storage or after out of fuel) 4. Damage of ignition plug 5. Clog of carburetor 6. Fuel cock is closed 7. Overflow of fuel by overusing chock 8. Trouble of ignition 9. Clog of fuel filter 10. Switch is in "OFF"(O) position 11. Clog of air cleaner. 12. Less engine oil	1. Refill fuel 2. Replace it 3. Refill fuel in full or release air from the cup of the fuel cock 4. Clean or replace ignition plug 5. Disassemble and clean the carburetor 6. Open the fuel cock 7. Turn the choke lever to close position, pull starter robe several times. 8. Inspect or repair if necessary ＊ 9. Clean the fuel filter 10. Turn the switch to "ON"(I) position 11. Clean the air cleaner ＊ 12. Refill the engine oil
2. Start rope is heavy when pulling	1. Power unit is not connected with the equipment (breaker and etc) 2. Burning of cylinder due to less engine oil 3. Damage of couplers 4. Selector lever is not on the starter position "O".	1. Connected power unit to equipment (breaker and etc) 2. Disassemble and repair ＊ 3. Inspect, replace new ones if necessary 4. Turn the lever
3. Engine rotation (rpm) does not raise up	1. Choke was not turned to the original position 2. Not enough fuel 3. Clog of fuel filter 4. Clog of air cleaner	1. Turn the choke to its original position 2. Refill fuel 3. Clean the fuel filter ＊ 4. Clean the air cleaner

	5. Looseness or damage of throttle wire	5. Adjust or replace *
4. Attached tool does not operate or operate in lower power	1. Trouble of the tool 2. Tool is not suitable and out of specs 3. Not enough hydraulic oil 4. Insufficiency of the hydraulic oil 5. Decrease of relief valve pressure 6. Wear of pump 7. Damage of coupler 8. Control lever is in "START"(O) position	1. Check and repair * 2. Use suitable tool 3. Refill hydraulic oil 4. Change hydraulic oil 5. Adjust relief valve pressure * 6. Replace a new pump * 7. Replace 8. Turn the control lever to " OPERATE"(I) position
5. Oil temperature i abnormally high (Ove 90℃)	1. Clog of radiator 2. Clog of fan	1. Clean the radiator 2. Clean the fan
6. Oil leakage from hoses or couplers	1. Loose of hoses fitting and couplers 2. Damage of hoses	1. Tighten up hoses and couplers 2. Replace new hoses or couplers if necessary
7. Stop switch is OFF but engine does not stop	1. Switch code or earth wire is broken or loosen	1. Check and repair *
8. Engine stops	1. Overload (continuous operation in condition of working the relief valve) 2. No fuel 3. Trouble of electric circuit 4. Less engine oil (check oil alert)	1. Decrease load 2. Refill fuel 3. Check and repair * 4. Refill engine oil
9. Cell starter won't work	1. Switch lever is "I" position 2. Less engine oil 3. Discharged electricity of battery 4. Break or disconnect of electric circuit	1. Turn the switch lever to "O" position * 2. Refill engine oil 3. Charge or replace battery 4. Check and repair *
10. Battery is not recharged	1. Trouble of electric circuit inside of engine 2. Full discharged of battery	1. Check and repair * 2. Replace *

EXPLODED VIEW/ PARTS LIST

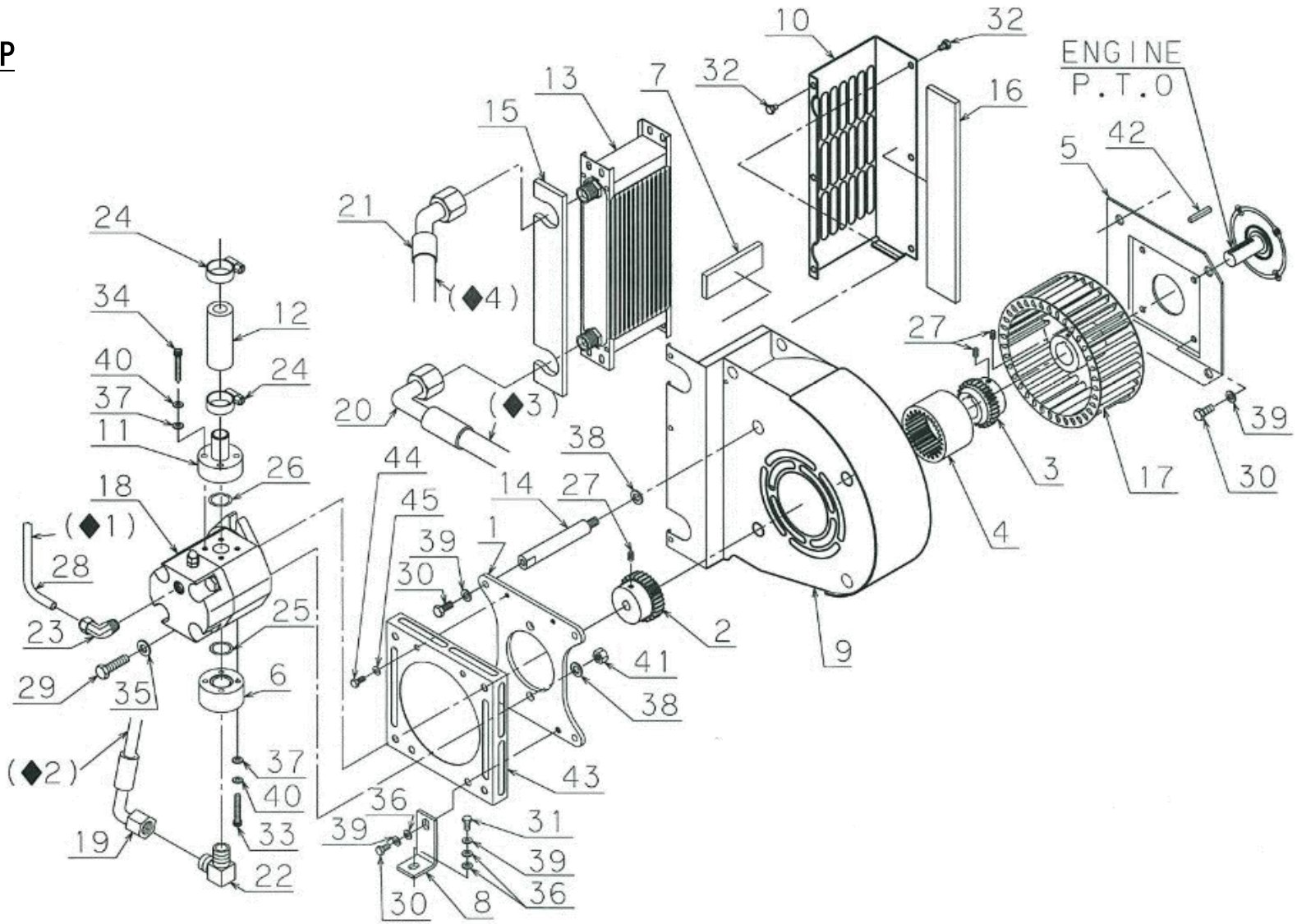
1. FRAME



1. FRAME

No.	Part Number	Descriptions	Q'ty	No.	Part Number	Descriptions	Q'ty
1	MU14Z037A	Engine Base	1	20	SR-5×10(3P)	Screw	1
2	106-11307	Wheel Shaft	1	21	WP-10	Washer	4
3	MU14X063A	Front Panel (B)	1	22	WP-20	Washer	2
4	MU14Y026A	Handle	1	23	WS-10	Washer	4
5	MU14Z041A	Throttle Label	1	24	WS-8	Washer	12
6	MU14W062A	Frame (B)	1	25	N1-10	Nut	4
7	—	—	—	26	N1-8	Nut	12
8	KA-40	Rubber	2	27	NN-8	Nylon Nut	2
9	MU14Z032A	Front Leg	2	28	MPL1Z063A	Label BP(CAUTION)	1
10	—	—	—	29	MPL1Z106A	Label CR(CAUTION)	1
11				30	MU14Z059A	Battery Cable	1
12	Solid Rubber wheel (10″)	Pneumatic Wheel	2	31	MU14Z060A	Earth Wire	1
13	COPS3-20P	Cable Clip(Steel)	1	32	B668	Battery Flame	1
14	KA-30	Cushion Rubber	4	33	Y134	Battery Terminal	2
15	RA-30	Cushion Rubber	2	34	40B19L	Battery (12V24Ah)	1
16	B-10×45	Bolt	4	35	1675	Terminal Cover RED	1
17	B-8×45 (11T)	Bolt	2	36	BTC17K	Teriminal Cover BLACK]	1
18	PS－3.2×30	Pin	4	37	200L	Binder	3
19	BG-6×8	Bolt	6				

2. PUMP


ENGINE
P.T.O
10
32
32
16
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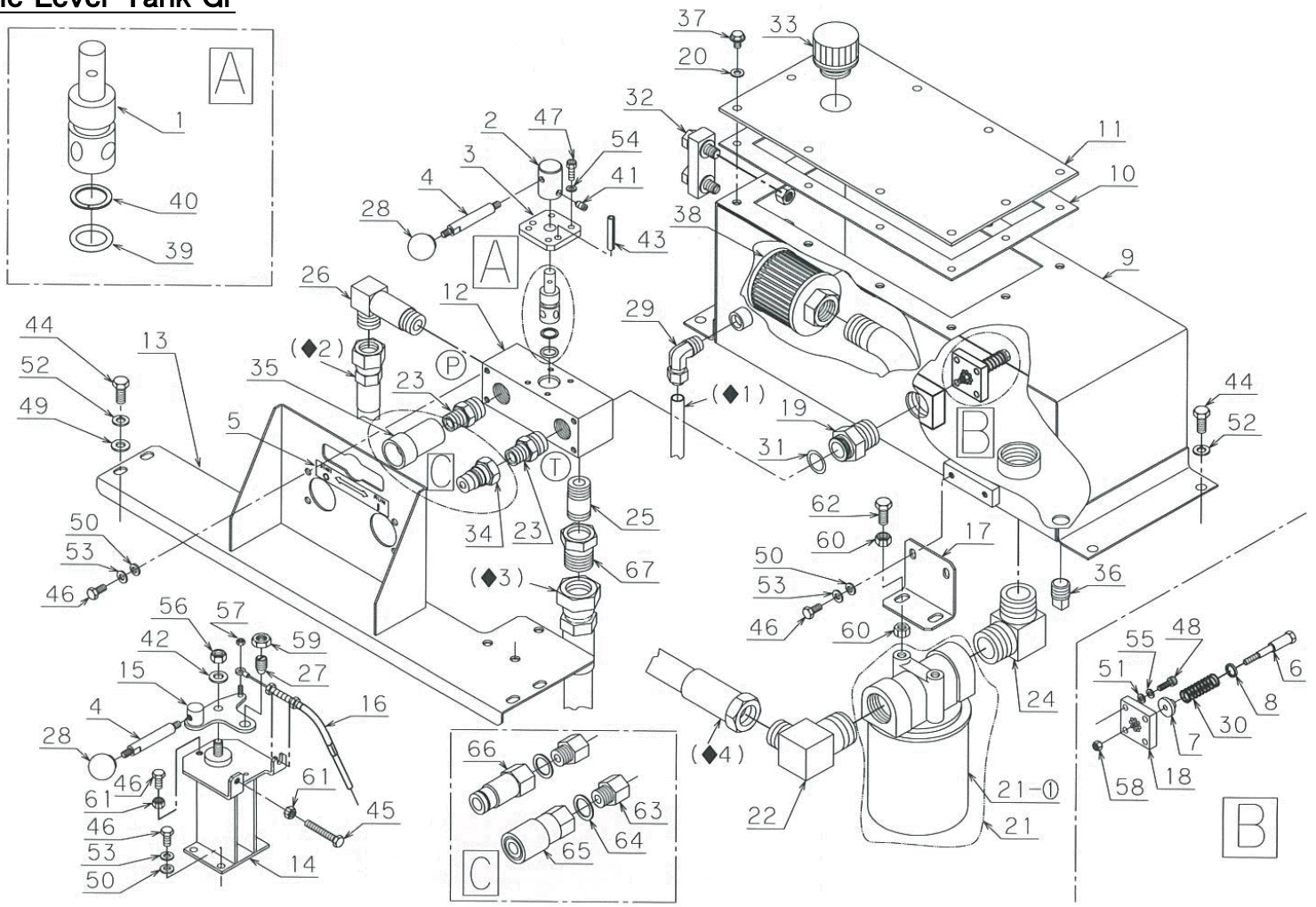
No.	Part Number	Descriptions	Q'ty	No.	Part Number	Descriptions	Q'ty
1	MU14Z005A	Pump Flange(MAR)	1	24	SS－12	Hose Band	2
2	MU14Z046A	Coupling(MAR)	1	25	OP-24	O Ring	1
3	MU14Z045A	Coupling(GX390)	1	26	OP-22	O Ring	1
4	MU07Z034A	Hub	1	27	SH－6×8KUBOMISAKI	Screw	3
5	MU14Z007A	Mounting Plate	1	28	N2-4-10×8 L＝330	Nylon Tube	1
6	MU14Z009A	Delivery Flange(Φ20)	1	29	B-10×40	Bolt	2
7	MU14Z010A	Packing(A)	2	30	B-8×20	Bolt	14
8	MU14Z014A	Cushion Rubber Bracket	2	31	B-8×16	Bolt	2
9	MU14Y065A	Fan Case A	1	32	B-6×10(2P)	Bolt	6
10	MU14Y066A	Radiator Cover A	1	33	BH-6×40	Bolt	4
11	MU14Z027A	Suction flange	1	34	BH-6×35	Bolt	4
12	MU14Z028A	Suction Hose(MAR)	1	35	WP-10	Washer	2
13	R3NSZ022A	Radiator	1	36	WP-8	Washer	6
14	MU07Z005A	Stud Bolt	4	37	WP-6	Washer	8
15	MU07Z007A	Packing(A)	1	38	WS-10	Washer	6
16	MU07Z008A	Packing(B)	1	39	WS-8	Washer	12
17	MU14Z001A	Fan	1	40	WS-6	Washer	14
18	ALP2A-D-12-2/2-D-VM-E3/155	Pump	1	41	N1-10	Nut	2
19	17126･8－－34－－	Hose	1	42	90741-805-000	Key	1
20	03196･8－－48－-	Hose	1	43	MU14Z031A	Key(EX40)	1
21	03196･7－－42－-	Hose	1	44	B-6×10(2P)	Fan Guard	2
22	N-1034-08	Adapter	2	45	WP-6	Bolt	2
23	L4N10×8－PT3/8	Elbow	1	—	—	Washer	—

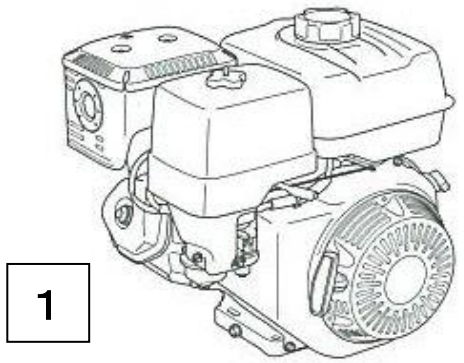
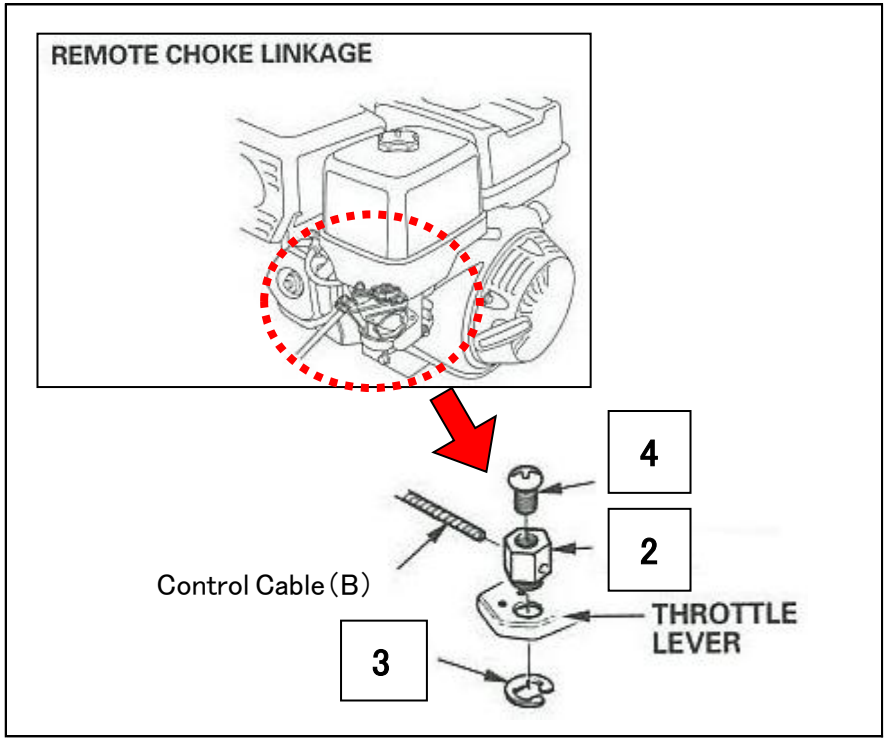
3. Throttle Lever Tank Gr



No.	Part Number	Descriptions	Q'ty	No.	Part Number	Descriptions	Q'ty
1	MU14Z008A	Rotary	1	23	N-2083-06-08	Adaptor	2
2	MU14Z011A	Cap	1	24	N-2086-16	Adaptor	1
3	MU14Z012A	Plate	1	25	N-1007-08-12	Adaptor	1
4	MU14Z013A	Lever	2	26	N-9034-08	Adaptor	1
5	MU14Z042A	Operation Label	1	27	PBF-10	Mini Ball Plunger	1
6	MU14Z015A	Shaft	1	28	PC25×6B	Ball	2
7	MU14Z016A	Bypass Valve	1	29	L4N10×8－PT1/4	Elbow	1
8	MU14Z017A	Washer(Bypass)	1	30	11-1344	Spring	1
9	MU14Y052A	Tank (A)	1	31	OP-20(1B)	O-Ring	1
10	MU14Z054A	Tank Packing (A)	1	32	CD D6－H40 FLOAT (RED)	Oil Level Gauge	1
11	MU14Z055A	Tank Lid (A)	1	33	BM-3/4	Breather Cap	1
12	MU14Z020B	Valve Body	1	34	QC－03M	Coupler Male	1
13	MU14Y064A	Valve Body Bracket (B)	1	35	QC－03F	Coupler Female	1
14	MU14Y022A	Throttle Base GX390	1	36	3/8Plug	Plug	1
15	MU14Z023A	Throttle Lever	1	37	BG－6×15	Bolt	10
16	MU14Z024A	Control Cable	1	38	SFT-06	Suction Filter	1
17	MU14Z053B	Filter Bracket (C)	1	39	OP-14	O-Ring	1
18	MU14Z029A	Bypass Flange	1	40	OBP-14	Backup Ring	1
19	MU14Z030B	Bypass Adaptor	1	41	SH－6×8 Point	Screw	1
20	1240-404	ϕ6 Washer	10	42	WF－8	Washer	1
21	CP－08-132	Cartridge Filter	1	43	PR-6×35	Pin	2
21-1	CP132	Replacement Cartridge	1	44	B-8×20	Bolt	10
22	N-2083-06-08	Adaptor	2	45	B-6×45 Full Thread	Bolt	1

No.	Part Number	Descriptions	Q'ty
46	B-6×15	Bolt	8
47	BH-5×15	Bolt	4
48	BH-4×15	Bolt	4
49	WP-8	Washer	4
50	WP-6	Washer	9
51	WP-4	Washer	4
52	WS-8	Washer	10
53	WS-6	Washer	8
54	WS-5	Washer	4
55	WS-4	Washer	4
56	NN-8	Nylon Nut	1
57	NN-4	Nylon Nut	1
58	NU-5	U Nut	1
59	N1-10	Nut	1
60	N1-8	Nut	10
61	N1-6	Nut	2
62	B-8×30	Bolt	2

No.	Part Number	Descriptions	Q'ty
Flat Face Coupler （No.63～66）			
63	N-1007-06	Adaptor	63
64	W18S1	Washer	64
65	10-362-6204	FF Coupler Male	65
66	10-362-1204	FF Coupler Female	66
67	N-2084-08-65A	Adaptor	67

4. Engine

No	Code	Description	Q'ty
1	GX390UT2 SXE4	Engine	1
2	16594-883-010	Wire Holder	1
3	E－5	Circrip	1
4	SR-4×6 (Ucr)	Screw	1