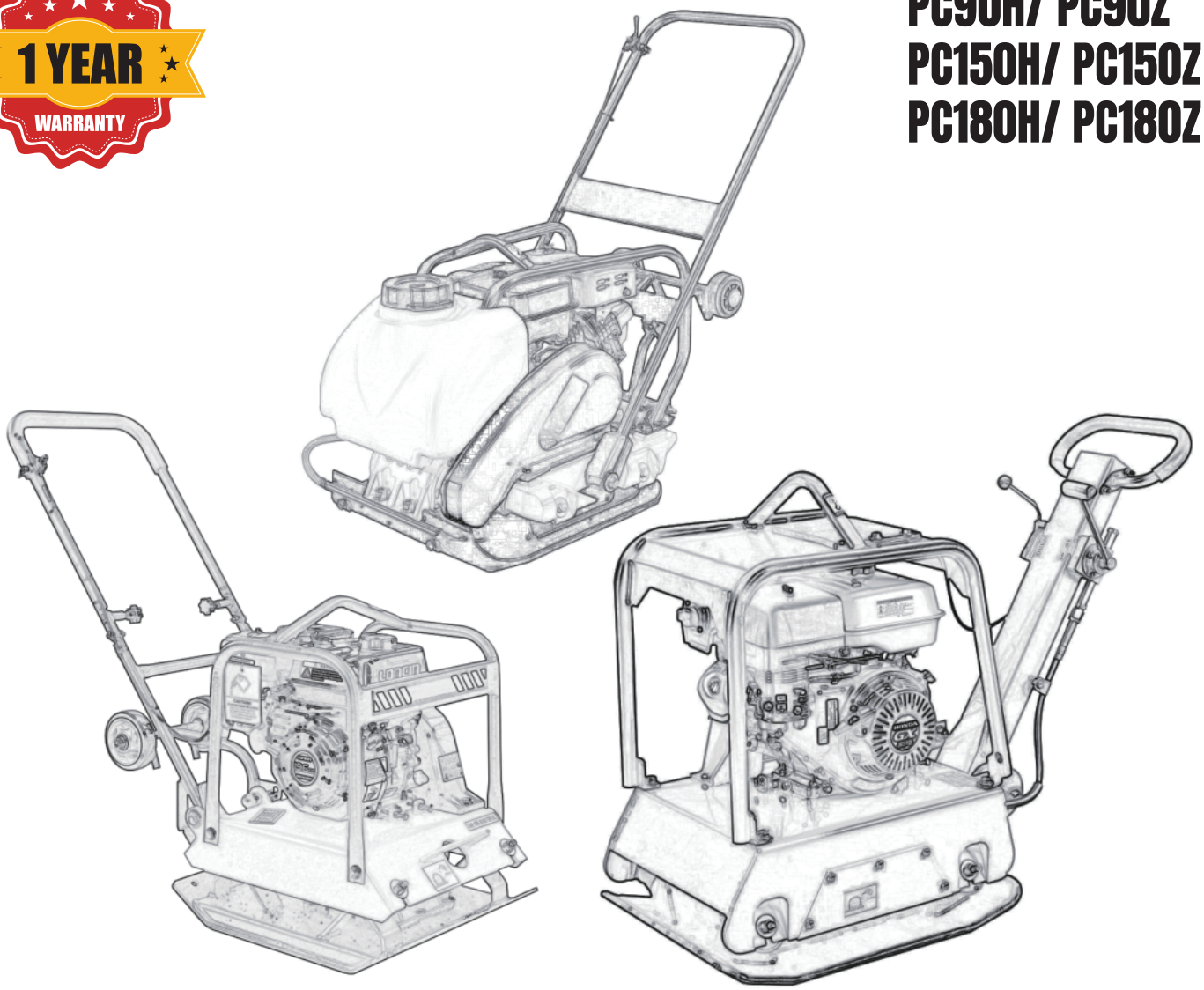
PLATE COMPACTOR

1 YEAR WARRANTY

Model: PC80H/PC80Z
PC90H/ PC90Z
PC150H/ PC150Z
PC180H/ PC180Z



Operator's Manual

MechMaxx

www.mechmaxx.com

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SPECIFICATIONS

Model	PC80H	PC80Z
Engine	Honda GX160	Zonsen GB210
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled, OHV Gasoline Engine	
Engine Displacement	163 cc	208 cc
Horsepower	4.8 HP (3.6kW) @ 3600 RPM	5.8 HP (4.3kW) @ 3600 RPM
Start System	Recoil	
Fuel Tank Capacity	3.3 US qt (3.1L)	2.8 US qt (2.6L)
Engine Oil Capacity	0.61 US qt (0.6L)	
Centrifugal Force	3150 lbf (14kN)	
Vibration Frequency	4930 VPM	
Compact Depth	12 in	
Max Travel Speed	69 ft/min	
Plate Size	21 x 20 in	20 x 19 in
Water Tank Capacity	3.2 US gal	
Exciter Oil	0.15L SAE 10W-30	
Overall Dimension (LxWxH)	31 x 20 x 23 in	
Weight	187 lbs	168 lbs

PLATE COMPACTOR

Model	PC90H	PC90Z
Engine	Honda GX160	Zonsen GB210
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled, OHV Gasoline Engine	
Engine Displacement	163 cc	208 cc
Horsepower	4.8 HP (3.6kW) @ 3600 RPM	5.8 HP (4.3kW) @ 3600 RPM
Start System	Recoil	
Fuel Tank Capacity	3.3 US qt (3.1L)	2.8 US qt (2.6L)
Engine Oil Capacity	0.61 US qt (0.6L)	
Centrifugal Force	3600 lbf (16kN)	
Vibration Frequency	4750 VPM	
Compact Depth	12 in	
Max Travel Speed	72 ft/min	
Plate Size	21 x 18 in	
Water Tank Capacity	/	
Exciter Oil	0.18L SAE 10W-30	
Overall Dimension (LxWxH)	25 x 18 x 26 in	
Weight	198 lbs	201 lbs

PLATE COMPACTOR

MechMaxx

Model	PC150H	PC150Z
Engine	Honda GX160	Zonsen GB210
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled, OHV Gasoline Engine	
Engine Displacement	163 cc	208 cc
Horsepower	4.8 HP (3.6kW) @ 3600 RPM	5.8 HP (4.3kW) @ 3600 RPM
Start System	Recoil	
Fuel Tank Capacity	3.3 US qt (3.1L)	2.8 US qt (2.6L)
Engine Oil Capacity	0.61 US qt (0.6L)	
Centrifugal Force	5625 lbf (25kN)	
Vibration Frequency	4600 VPM	
Compact Depth	22 in	
Max Travel Speed	66 ft/min	
Plate Size	26 x 20 in (with Extension Plate)	
Exciter Oil	0.3L SAE 10W-30	
Overall Dimension (LxWxH)	30 x 20 x 37 in	
Weight	320 lbs	

PLATE COMPACTOR

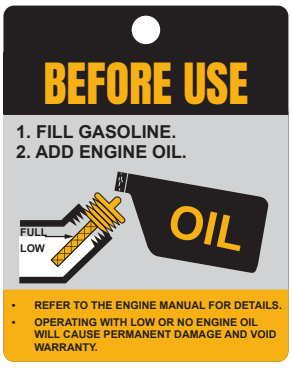
Model	PC180H	PC180Z
Engine	Honda GX270	Loncin G300FA
Engine Type	Single-Cylinder, 4-Stroke, Air-Cooled, OHV Gasoline Engine	
Engine Displacement	269 cc	302 cc
Horsepower	8.5 HP (6.3kW) @ 3600 RPM	9 HP (6.8kW) @ 3600 RPM
Start System	Recoil	
Fuel Tank Capacity	5.6 US qt (5.3 L)	6.3 US qt (6 L)
Engine Oil Capacity	1.16 US qt (1.1 L)	1.04 US qt (0.95 L)
Centrifugal Force	6750 lbf (30kN)	
Vibration Frequency	4500 VPM	
Compact Depth	24 in	
Max Travel Speed	66 ft/min	
Plate Size	28 x 25 in (with Extension Plate)	
Exciter Oil	0.3L SAE 10W-30	
Overall Dimension (LxWxH)	31 x 18 x 37 in	
Weight	375 lbs	

Specifications are subject to change without notice.

Engine specifications may vary by configuration. Refer to the engine manufacturer's manual for engine-specific service information.

SAFETY LABELS

LABEL LOCATIONS

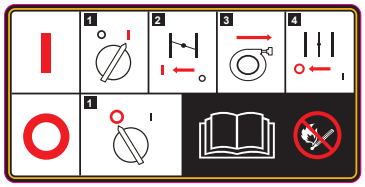












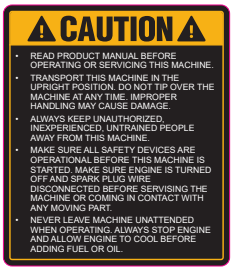


SAFETY LABELS

The machines use international pictorial labels where needed. These labels are described below:

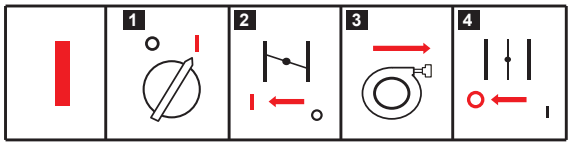
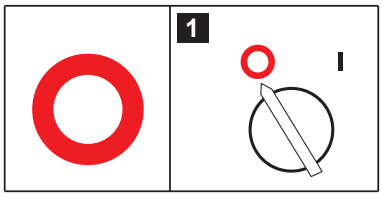
NOTE: These molded-in label contains important safety and operating information. If the label becomes illegible, replace it immediately. Contact MechMaxx or an authorized service dealer for replacement labels.

Label	Meaning
	**DANGER!** Wear appropriate PPE including gloves, eye protection, hearing protection, and safety footwear. Do not touch the engine or muffler during or immediately after operation—hot surfaces may cause burns. Keep hands and feet away from moving parts. Operate only in well-ventilated areas to avoid carbon monoxide exposure.
	**WARNING!** Before use, fill the fuel tank with gasoline and add engine oil to the proper level. Operating the engine with low or no oil will cause permanent engine damage and may void the warranty. Refer to the engine manual for detailed instructions.

Label	Meaning
	**CAUTION!** Read the operator's manual before operating the machine. Transport only in the upright position. Keep unauthorized persons away from the equipment. Ensure all safety devices are in place before starting the engine. Stop the engine and allow it to cool before servicing or refueling. Never leave the machine running unattended.
	**CAUTION!** Check the exciter oil level before operation. Add the recommended oil if the level is low. Operating the machine with insufficient oil may cause damage to the exciter assembly.
	**CAUTION!** Read the operator's manual for machine information.
	**DANGER!** Keep sparks, flames, and hot materials away from the machine.
	**CAUTION!** Lifting point.

OPERATING LABELS

The machines use international pictorial labels where needed. These labels are described below:

Label	Meaning
	START THE ENGINE 1. Turn the engine switch to the ON position 2. Close the choke 3. Pull the recoil starter 4. Open the choke.
	Stop the engine: Turn the engine switch to OFF position.
	Throttle control lever: Turtle = Idle or Slow Rabbit = Full or Fast

INTRODUCTION

Thank you for selecting MechMaxx equipment.

This manual provides information for the safe operation and maintenance of this machine. Read this manual carefully before operating the equipment. Proper operation and routine maintenance will help ensure long service life, dependable performance, and safe use.

Keep this manual with the machine at all times. If this manual is lost or damaged, contact MechMaxx for a replacement copy.

MechMaxx is not responsible for damage or injury resulting from improper operation, misuse, or failure to follow the instructions in this manual.

APPLICATIONS

Plate compactor is the machine that compacts the ground and it intends to make the surface smooth, by transmitting vibration through vibrating plate, which power generated from single engine in vibrator case

This machine is suitable for making the ground surface smooth, such as leveling the soil and beaching, finishing the asphalt paving. Applications as followings:

Trench compaction	Earth works
Road maintenance	Landscaping
Brickpaving	Driveway toppings

! WARNING FOR INCORRECT APPLICATION AND ABUSE

This machine is hard to move forward on a soil with much water (especially clay soil).It is not suitable for such application. This machine is difficult to level a ground include big stones due to insufficient compacting force. Plate compactor is mainly applied for compacting surface smooth and it is nor effective for jobs that requires heavy compaction. In case of compacting ground deeply into lower layer, it is recommended to use. Tamping Rammer, Vibro Compactor and Vibration Roller which compacting force is rather effective.Please use this compactor for compacting surface on soil, sediment, sand , beaching and asphalt. It is not recommended for use this machine for the other applications.

STRUCTURE

The upper part is made up of Power Source, Handle ,Belt Cover and Guard Hook which are fixed by Engine base. The Engine base is fixed on Vibrating Plate by Shock Absorbing Ruber.The lower part is made up of Vibrating Plate and Vibrator unit that has an Eccentric rotary shaft built in. The power source is transmitted from the centrifugal clutch on engine output shaft to the eccentric rotary shaft via V-belt.

POWER TRANSFER

Air-cooled single cylinder engine is amounted as power source and Centrifugal Clutch is fixed on engine output shaft. Centrifugal Clutch engages by running up the engine and engine is reduced o suitable number for compacting. The rotation of engine is transmitted from V-pulley integrated with Clutch drum to Vibrator pulley through V-belt. Vibrator Pulley rotates Eccentric rotor shaft that is contained in Vibrator case. The generated vibration created from eccentric rotor is transmitted to Compaction with the weight of the machine makes the compaction of the ground possible.

FUNCTIONS AND CONTROLS

MOTOR

The engine is controlled by an ON/OFF switch or push button which is mounted on the engine below the fuel tank.

The engine speed is controlled by a remote throttle lever which is mounted on the machine handle.

DRIVE BELT

Tension of the drive belt is adjustable. Loosen the four nuts on the bolts which secure the engine to the baseplate, Adjust the set screws which bear against the engine crankcase to achieve the required belt tension .Ensure that the four nuts and the set screw locknuts are tightened after adjustment.

FOR SAFETY OPERATION

This safety alert symbol identifies important safety messages throughout this manual and on the machine.

When you see this symbol, carefully read the message that follows. Your safety is at stake!

FOREWORD:

It is important to read this manual carefully so that you will fully understand the operational characteristics and performance of the plate compactor, Proper maintenance procedures will insure long life and top performance of the unit.

SAFETY:

This section outlines basic safety procedures that apply to the operation,maintenance and adjustment of the plate compactor. This unit is designed as a powerful, productive machine that should be operated with respect and caution.

Misuse or carelessness can result in serious injury or property damage. Or both. Safety precautions must be observed at all times.

Operator Qualifications:

Before operating this equipment, an individual should read this manual. Whenever possible, he should be shown how to operate the unit by an experienced operator. Inexperience is hazardous in operating any machine or attachment. Trial and error is not the way to become familiar with a piece of equipment. This is expensive, cuts equipment life and can create machine should not be left unattended when operating.

GENERAL SAFETY:

! CAUTION

Protection required. Wear hard hat, shatterproof glassed, steel toed boots and other protective devices required by job conditions. Avoid jewelry or loose clothing. These many catch on controls or in moving parts and cause serious injury.

STARTING SAFETY:

! CAUTION

Poisonous fumes. Start and operate only in well ventilated area. Breathing exhaust gases can result in sickness or death.

SERVICING SAFETY:

! CAUTION

Flammable liquid. Stop engine and do not smoke or allow work in immediate area when refueling. Fire or explosion could result from flames or sparks.

Moving parts. Shutdown engine before performing. Service or maintenanace. Contact with moving parts can cause serious injury.

Fligh temperature. Alow machine and engine to cool before performing service or maintenance. Contact with hot components can cause serious bums.

ENGINE SAFETY

Refer to the engine manufacturer's manual for engine-specific operation and maintenance instructions.

- Operate the machine only in well-ventilated areas.
- Never run the engine in enclosed spaces.
- Stop the engine before refueling.
- Allow the engine and muffler to cool before servicing.
- Do not touch hot engine or exhaust components during or immediately after operation.

SHUTDOWN

Emergency Shutdown

Move the throttle lever to the OFF or IDLE position and switch the engine OFF immediately.

Normal Shutdown

Reduce engine speed to idle, allow the engine to run for 2-3 minutes to cool, then switch the engine OFF and close the fuel valve.

HAZARDS AND RISKS

NEVER allow any person to operate the machine without adequate instruction .

ENSURE all operators read,understand and follow the operating instructions

SERIOUS INJURY could result from improper or careless use of this machine

Plate compactors are heavy units and should be positioned by two people of appropriate strength. Using the lifting handles provided on the machine, along with correct lifting techniques.

MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place.

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

ENSURE that the engine operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not tip over, slide or fall while in operation or unatrttended.

DO NOT leave the machine in operation while it is unattended.

ENSURE that the walls of a trench are stable and will not collapse due to the action of the vibration ,prior to commencing compaction.

ENSURE that the area to be compacted does not contain any “live” electrical cables, gas, water or communication services which may be damaged by the action of the vibration.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

DO NOT increase the governed no-load engine speed above 3600 r/min. Any increase may result in personal injury and damage to the machine.

BE CAREFUL not to come in contact with muffier when the engine is hot, since it can cause severe burns.

ENSURE that repairs to the engine and machine are carried out by personnel.

FIRE & EXPLOSION HAZARDS

PETROL is extremely falmmable and explosive under certain conditions.

ENSURE that gasoline is only stored in an approved storage container.

DO NOT refuel the engine while it is in operation or hot.

DO NOT refuel the engine in the vicinity of sparks, a naked flame or a person smoking.

DO NOT over fill the fuel tank and avoid spilling gasoline when refueling. Spilled gasoline or gasoline vapour may ignite. If spillage occurs,ensure that the area is dry before starting the engine.

ENSURE theat the fuel tank cap is securely fitted after refueling.

CHEMICAL HAZARDS

DO NOT operate or refuel a gasoline engine in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion engine driven units can cause death in confined spaces.

NOISE HAZARDS

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure. As required by Occupational Health and Safety regulations.

WEAR an approved hearing protection device to limit noise exposure. As requrede by Occupational Health and Safety regulations.

PROTECTIVE CLOTHING

ALWAYS wear approved hearing protection when working in a confined work space. Protective goggles and a dust mask should be worn when working in a dusty environment. Protective clothing and footwear may also be desirable wheh working with hot mix bitumen.

ADDITIONAL HAZARDS

Slip/Trip/Fall is a major cause of serious injury or death. Beware of uneven or slippery work surfaces.

Exercise care when working in the vicinity of unprotected holes or excavations.

OPERATION

GENERAL OPERATION

The machine is best suited to the compaction of bituminous and granular materials e.g. granular soils, gravels and sands or mixtures of both. Cohesive soils such as silt and clay are best compacted using the impact force produced by a vibrating rammer.

Where possible the site should be graded and leveled before commencing compaction.

Correct moistrure content in soil is vital to proper compaction.Water acts as a lubricant to help slide soil particles together. Too little moisture means inadequate compaction; too much moisture leaves water-filled voids that weaken the soil's load bearing ability.

Use unleaded grade gasoline and ensure that the fuel is free from contamination.

The vibratory motion provides a self propelling action. Position the handle at the opposite end of the machine to the vibrator.

Start the engine using the recoil starter. (If the engine is fitted with an on/off switch this must first be turned to ON before starting.)

For more information of starting and correct operating procedures of the engine, refer to the engine operation manual supplied with the unit.

Increase the engine sped to the maximum setting using the hand throttle lever, before commencing compacting.

The machine should be controlled by grasping the handle with both hands and applying restraint to control the for ward notion. If forward or reverse travel is not operating properly, inspect and adjust the travel control linkage and related fasteners as required.

ALWAYS maintain good footing so that you do not slip and loose control when starting or operating the machine.

PRIOR TO OPERATION

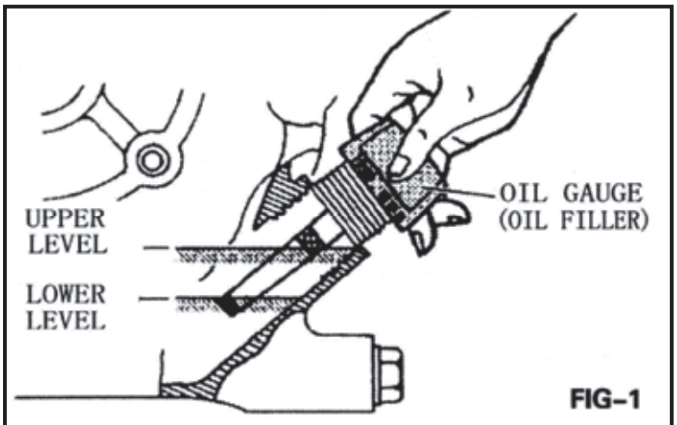
1. Make sure that all dirt, nut, etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the button face of the vibrating plate and those areas adjacent to the cooling air inlet of engine, carburetor, and air cleaner.

2. Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit.

3. Check the V-belt for tightness. The normal slack should be approximately 10-15 mm (1/2'') when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play. There could be a decrease in the impact force or erratic vibration, causing machine damage.

4. Check the engine oil level and if the engine oil lever is low, it should be refilled. Use the proper engine oil as suggested in the table below. (Fig-1)

5. Remove the oil plug in the vibrator assembly and check the oil level. Make sure the compactor is level when checking. The oil level should be up to the oil plug. Every month or every 200 hours of operation, replace the oil.



FIG–1

Season Temperature	Grad of Motor oil (higher than MS class)
Spring Summer or Autumn +120°F to +40°F	SAE 30
Winter +40°F to +15°F	SAE 20
Below +15°F	SAE 10W-30

! IMPORTANT

Use the engine oil SAE

When changing the oil, the old oil can be drained by tipping the unit. The oil will drain easily while it is hot.

6. A regular grade gasoline should be used in the engine. When filling the fuel tank, make sure the fuel filter is used.

! CAUTION

1. Be careful with the operating place and ventilation.

Avoid operating the machine in a closed room, tunnel, or other badly ventilated places, since its exhaust contains deadly poisonous carbon monoxide. If the machine is employed unavoidable operated in such a place, discharge the exhaust out the room by a suitable means.

2. Be careful with the hot members.

Mufflers and other hot members are dangerous.

Do not touch them with unprepared hand.

3, Observe with the following cautions when transporting.

Clamp fuel tank cap securely, and turn the fuel have OFF at the source during Drain gasoline from fuel tank before transporting over a long distance or on rough roads.

4. Stop engine without fail before replenishing fuel tank.

Never replenish gasoline while the engine is running or remains hot otherwise spilled or evaporated fuel is liable to catch fire from engine sparks or muffler heat.

Wipe off spilled fuel, if any, before starting engine. Be careful not to spill fuel.

5. Keep inflammables way from the vicinity of the exhaust port.

Be careful with gasoline match, straw and other inflammables, since the exhaust port is subjected to a high temperature.

STARTING

Gasoline Engine

1. Turn the STOP SWITCH clock-wise to the position "I" (ON). Fig-3.

2.Open the fuel cock. Fig-4.

3. Set the speed control lever 1/3 to 1/2 of the way towards the high speed position. Fig-5.

4. Close the choke lever.

If the engine is warm or the ambient temperature is high, open the choke lever half-way, or keep it fully open.

If the engine is cold or the ambient temperature is low, close the choke lever fully. Fig-6

5. Pull the starter handle slowly until resistance is felt. This is the "compression" point. Return the handle to its original position and pull swiftly.

Do not pull out the rope all the way.

After strater the engine, allow the starter handle to return to its original position while still holding the handle.

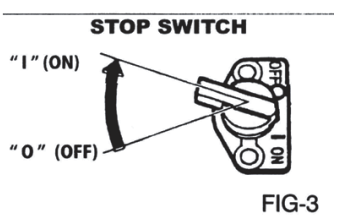


FIG-3

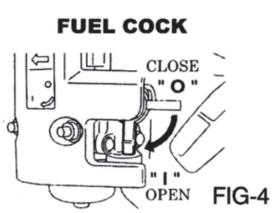


FIG-4

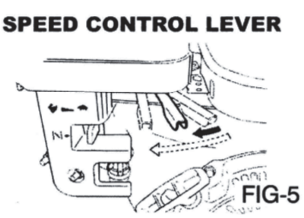


FIG-5

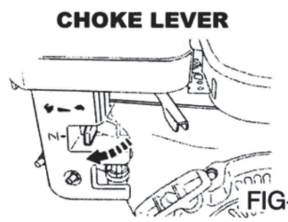


FIG-6

ENGINE

6. Turn the throttle lever to START position (open by about 30 degrees) Fig-5-D

7. Operate Starter

In case of recoil starter

By pulling the starter knob slowly, you will reach such point where resistance become strong (compression point). By pulling it further, you will find a point where resistance is reduced. Return the knob, but slowly return it original.Fig-7-D

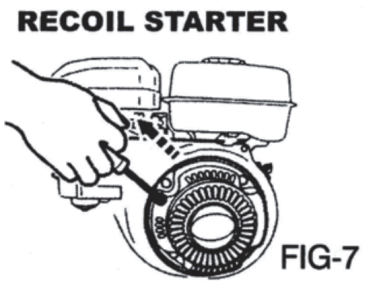
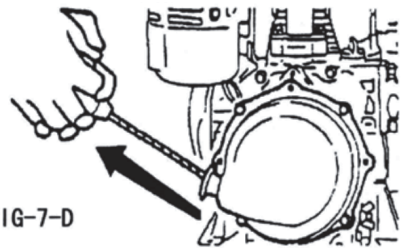


FIG-7


FIG-7-D

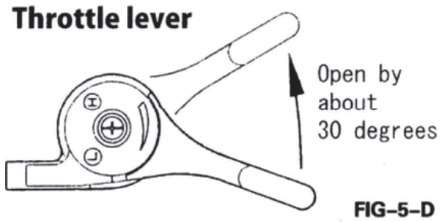


FIG-5-D

> **! CAUTION**
> Do not pull the rope all the way and do not take you hand off the pulled knob but slowly return it original position.

8. After starting up the engine, be sure to perform a warm up the engine, be sure to perform a warm up run for 2 to 3 minutes. This should be performed without fail, particularly during winter season.

OPERATION

1. As the engine warms up, gradually move the choke lever to the OPEN position Fig-8

2. Move the speed control lever from the LOW to the HIGH position. When the engine speed reaches approximately 2300-2600 PRM, the centrifugal clutch engages. If the engine speed increased very slowly, it is possible that the clutch can slip. Do not operate the speed control lever slowly. Fig-9.10.

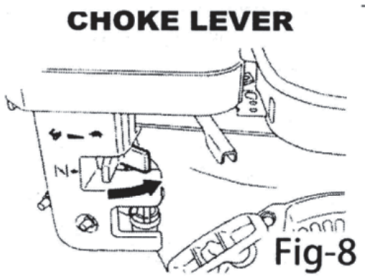


Fig-8

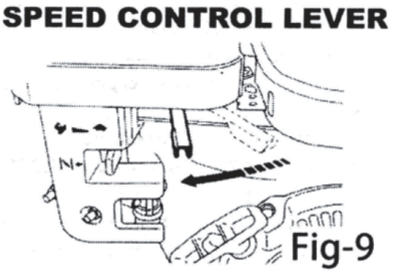


Fig-9

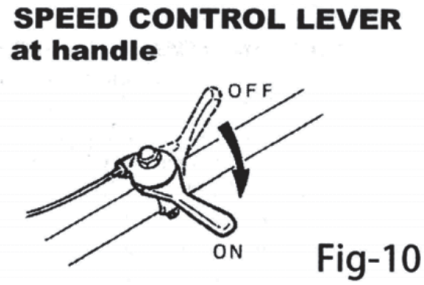


Fig-10

OIL ALERT SYSTEM

The Oil Alert Aystem is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert System will automatically stop the engine (the engine switch will remain in the ON position).

> **! NOTICE**
> If the engine stops and will not restart, check the engine oil level.

3. When compacting asphalt, apply an approved release agent to the bottom face of the vibrating plate to reduce sticking.

4. When shutting off the vibrator, turn the speed control lever from the HIGH to LOW position. Do not move the speed control lever slowly.

TRANSPORTATION

1. Be sure to stop the engine while transporting.

2. Screw up the fuel tank cap securely and close the fuel valve to avoid fuel leaking.

3. In transportation by car, fix machine securely not to move nor to fall down.

In case of driving for long distance or at off-road, take out fuel from tank.

SHUTDOWN

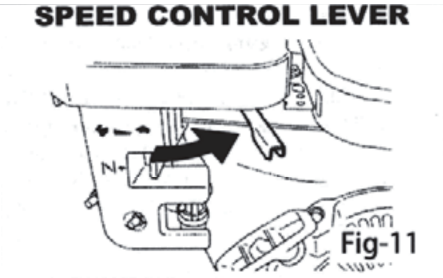
To stop the engine in an emergency, turn the stop switch to the OFF position.

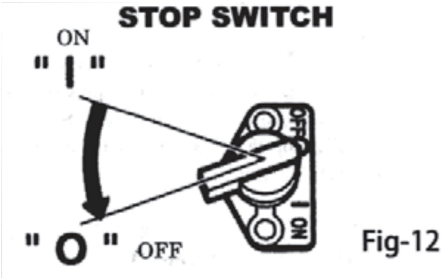
Under normal conditions, use the following procedure:

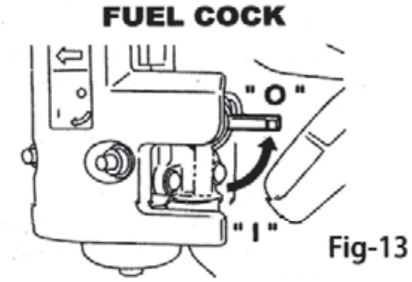
1. Set the speed control lever at the low speed position and allow the engine to run at low speed for 2 or 3 minutes before stopping.

2.Tum the stop switch to the OFF position. Fig-12

3.Close the fuel cock. Fig-13







SERVICE & STORAGE

! CAUTION

Flammable liquid: Stop engine and to not smoke or allow work in immediate area when refueling. Fire or explosion could result from flames or sparks.
Moving parts: Shutdown engine before performing service or maintenance. Contact with moving parts can cause serious injury.
High temperature: Allow machine and engine to cool before performing service or maintenance. Contact with hot components can cause serious burn.

DAILY SERVICE

A. Remove mud, dirt, ect, from the unit.

B. Clean bottom face of the vibrating plate.

C. Check the air cleaner element and clean if necessary.

D. Check all nuts, bolts, and screws for tightness and retighten as necessary.

WEEKLY SERVICE

AIR CLEANER SERVICE Fig-14

Dirty air cleaner element will cause starting difficulty, power loss, engine malfunctions, and shorten engine life extremely.

Keep the air cleaner element clean.

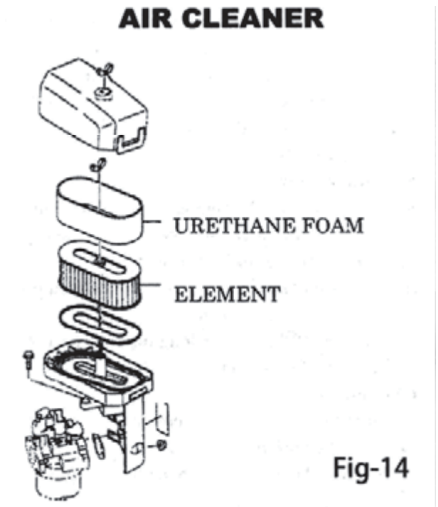


Fig-14

URETHANE FOAM ELEMENT

Clean the foam element using mild detergent or an approved non-flammable solvent. Allow it to dry completely. Lightly coat the element with clean engine oil, then squeeze out excess oil before reinstalling.

A. Remove spark plug, clean and adjust the spark plug gap to 0.6-0.7mm(0.02-0.03 in.). Fig-15

B. Drain the engine oil of the engine and replace with new specified oil. Fig-16

! NOTE: When the engine is new, the first oil change must be made after 20 hours of operation and replenish the oil tank before operating.

1. Monthly Service

Change the oil in the vibrator assembly.

2. Storage

When storing the compactor for long periods after operation.

A. Thoroughly drain the fuel from the fuel tank fuel pipe and carburetor.

B. Pour a few drops of engine oil into the cylinder by removing the spark plug. Rotate the engine several times by hand so that the cylinder interior is covered with oil.

C. Clean the outer surface of the machine with an oil moistened cloth. Cover the unit and store in a humidity-free area.

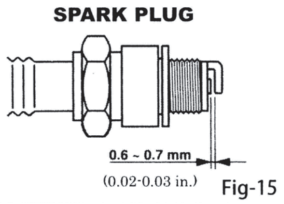


Fig-15

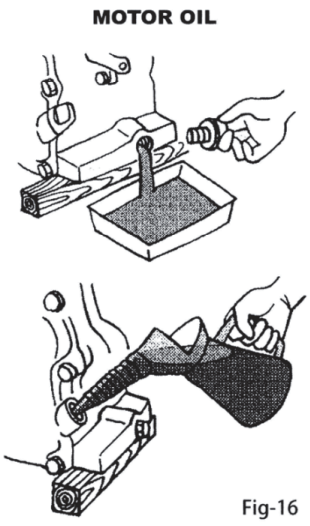


Fig-16

CARE AND PREVENTIVE MAINTENANCE

Check the oil level in the engine crankcase daily.

Check the vibrator oil level weekly. Inspect the rubber anti vibration mounts for wear or deterioration. Clean the underside of the plate regularly to prevent a build up of material.

SERVICE

Change the oil in the engine crankcase regularly to minimize wear. Inspect, clean and / or replace the engine air cleaner regularly, particularly when operating in a dusty environment. Inspect, clean and / or replace the spark plug regularly Check all fasteners for tightness as the machine is subiect to vibration.

Check V-belt tension, wear and that it is running true. Adjust or replace as required.

VIBRATOR OIL CHECK

1. Place the plate compactor horizontally on a flat surface. Make sure the compactor is level when checking the oil in the vibrator assembly.

2. Check vibrator oil level by removing the plug (vibrator oil gauge) as shown in Fig-17.

The oil level should be up to the pil plug. If oil is required, replace using SAE engine oil, as suggested in the table Fig-1.

3. When changing the vibrator oil, remove the drain plug(Fig-17), and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot.

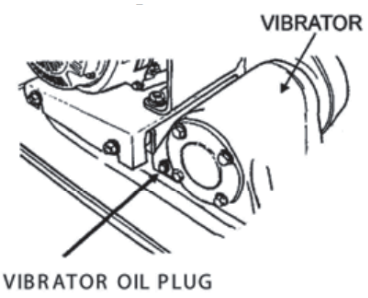
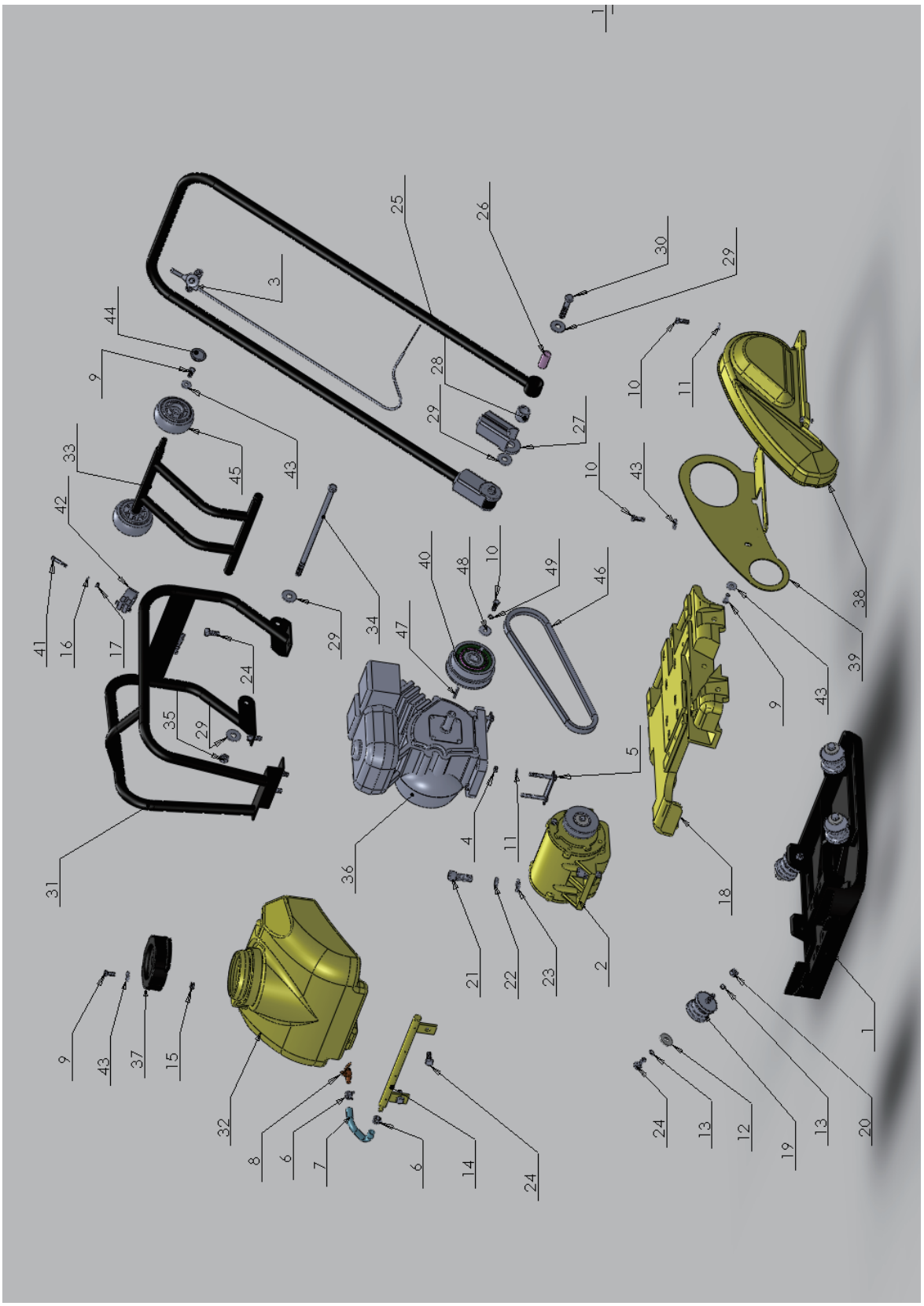


Fig-17 Vibrator Oil Plug

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Engine will not start	- Check that the engine switch is ON. - Check the fuel supply. - Check engine oil level. - Check the spark plug. - Check the air cleaner. - Check that the fuel valve is open.
Engine stops during operation	- Check the fuel supply. - Check the fuel valve. - Check engine oil level. - Check the air cleaner.
Engine lacks power	- Check the air cleaner. - Check the spark plug. - Check fuel quality.
Insufficient vibration	- Check for a slipping or damaged V-belt. - Check engine speed. - Check the exciter assembly.
Machine does not travel smoothly	- Clean the underside of the plate. - Check for material buildup. - Check handle control and linkage.

PARTS DIAGRAM (PC80H,PC80Z GENERAL ASSEMBLY)

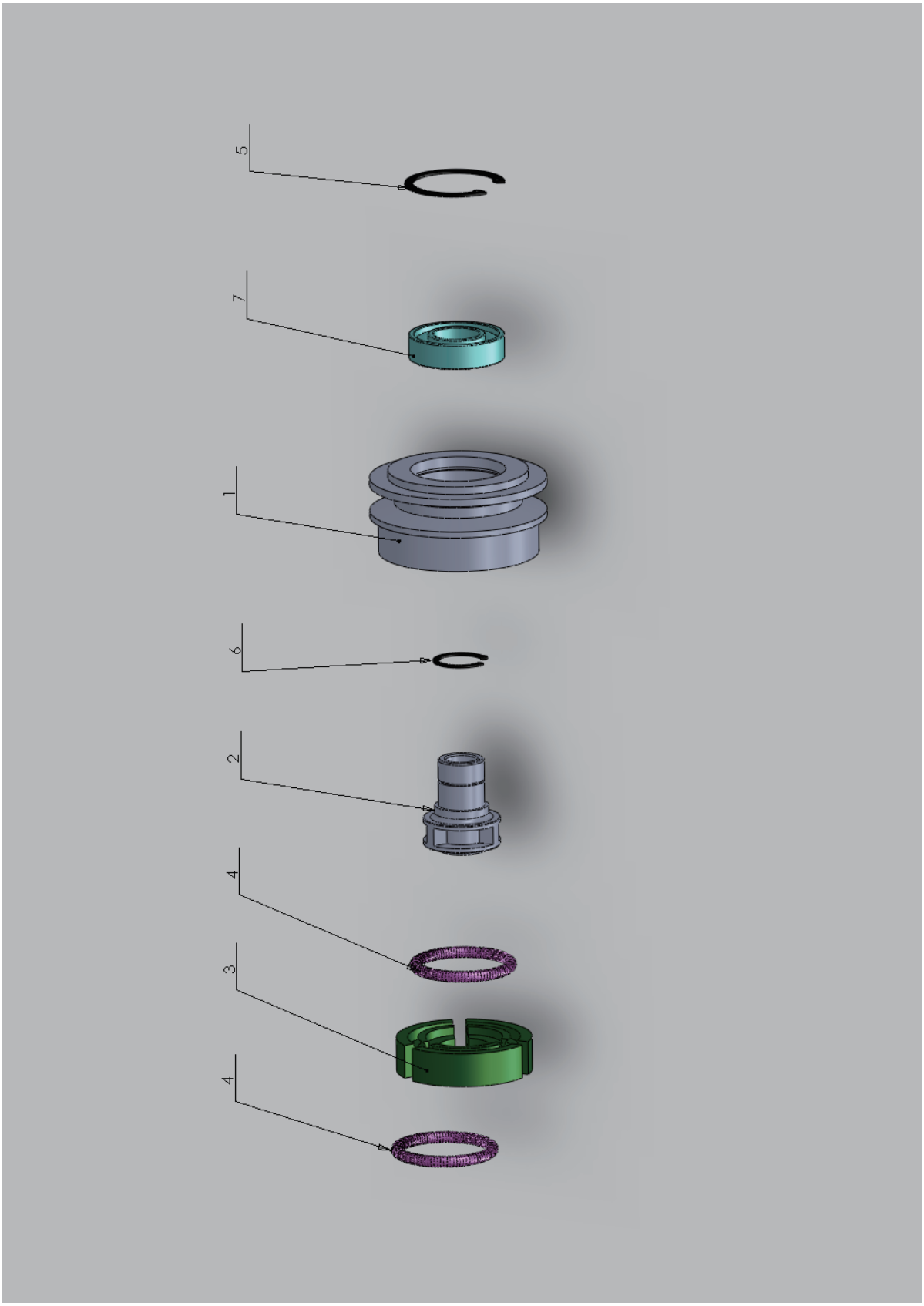


PARTS LIST (PC80H,PC80Z GENERAL ASSEMBLY)

No.	Description	Specification	Qty.
1	Bottom Plate(Cast Iron)		1
2	Exciter	Including Pulley	1
3	Throttle Line Assembly		1
4	Locked Nut	M8	4
5	Clamp Plate		2
6	Clip		2
7	Flexible Hose		1
8	Cock		1
9	External hexagon bolt	M8*20	4
10	External hexagon bolt	M8*25	5
11	Flat Gasket	Ø8	7
12	Enlarged Flat Gasket	Ø10*35	4
13	Spring Gasket	Ø10	8
14	Water-Leaking Hose		1
15	Anti-slide Nut	M8	1
16	Flat Gasket	Ø6	4
17	Locked Nut	M6	4
18	Engine Support Plate(Cast Iron)		1
19	Shock absorber		4
20	Nut	M10	4
21	Inner Hexagon bolt	M16*40	4
22	Spring Gasket	Ø16	3
23	Flat Gasket	Ø16	6
24	External hexagon bolt	M10*25	10
25	Straight Handle		1
26	Handle Iron shaft		2
27	Handle Protection Mat		2
28	Handle glues heat		2
29	Enlarged Flat Gasket	Ø12*35	6

No.	Description	Specification	Qty.
30	External hexagon bolt	M12*75	2
31	Protective Frame		1
32	Water Tank		1
33	Wheel Frame		1
34	Long Bolt	M12*320	1
35	Locked Nut	M12	1
36	Engine		1
37	Water Tank Cap		1
38	Belt Cover		1
39	Dust-prevent plate		1
40	Clutch Assembly		1
41	Inner Hexagon bolt	M6*35	4
42	Wheel Holder		2
43	Flat Gasket	Ø8*24	3
44	Wheel Cover		2
45	Wheel		2
46	Belt	B-813	4
47	Key	5*40	1
48	Conical Gasket	Ø8*30	1
49	Spring Gasket	Ø8	1

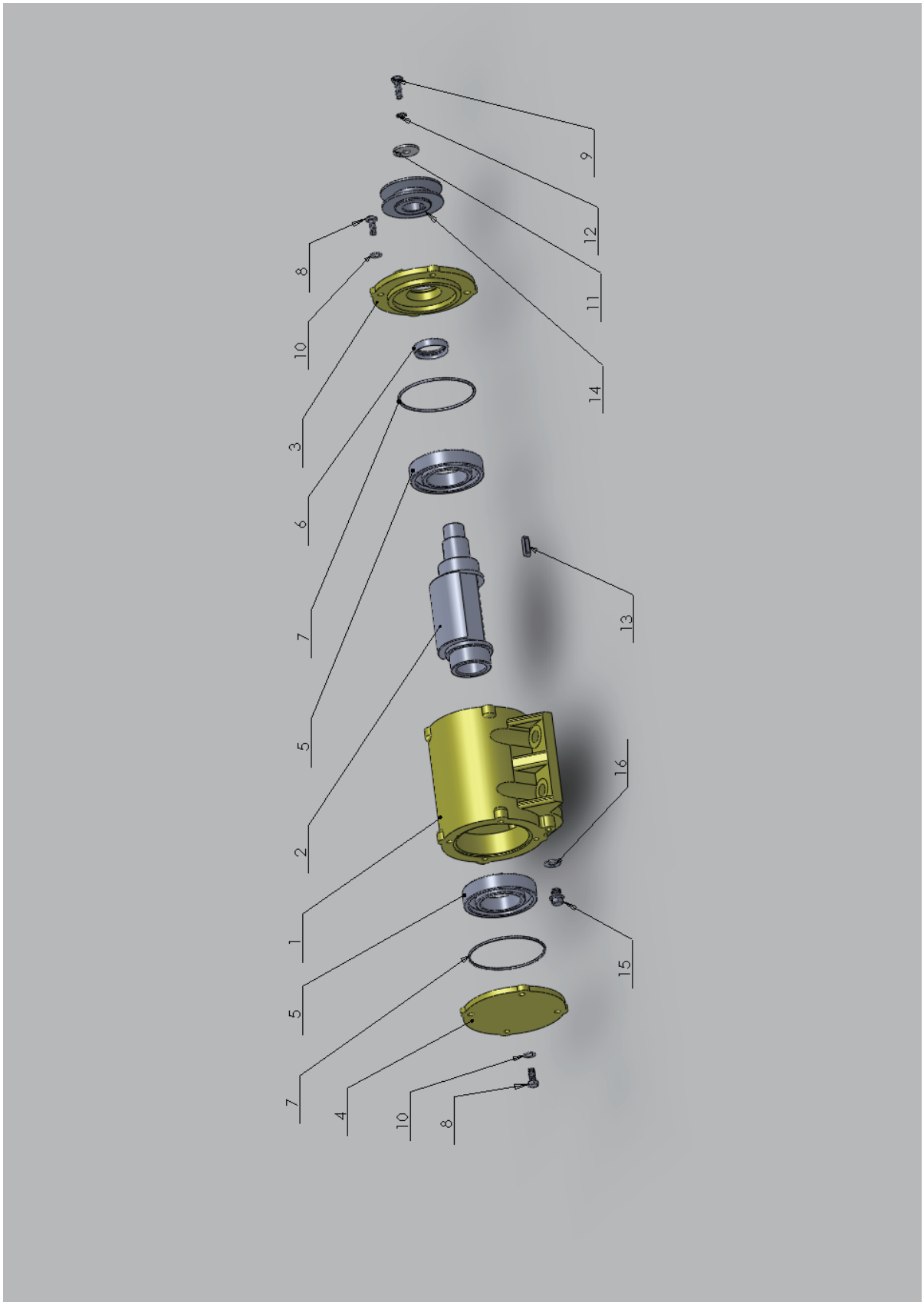
PARTS DIAGRAM (PC80H,PC80Z CLUTCH ASSEMBLY)



PARTS LIST (PC80H,PC80Z CLUTCH ASSEMBLY)

No.	Description	Specification	Qty.
1	Pulley for Clutch		1
2	Shaft Connector		1
3	Centrifugal Block		3
4	Spring Ring	7*58	2
5	Clip	Ø62	1
6	Clip	Ø30	1
7	Bearing	6206-2RS	1

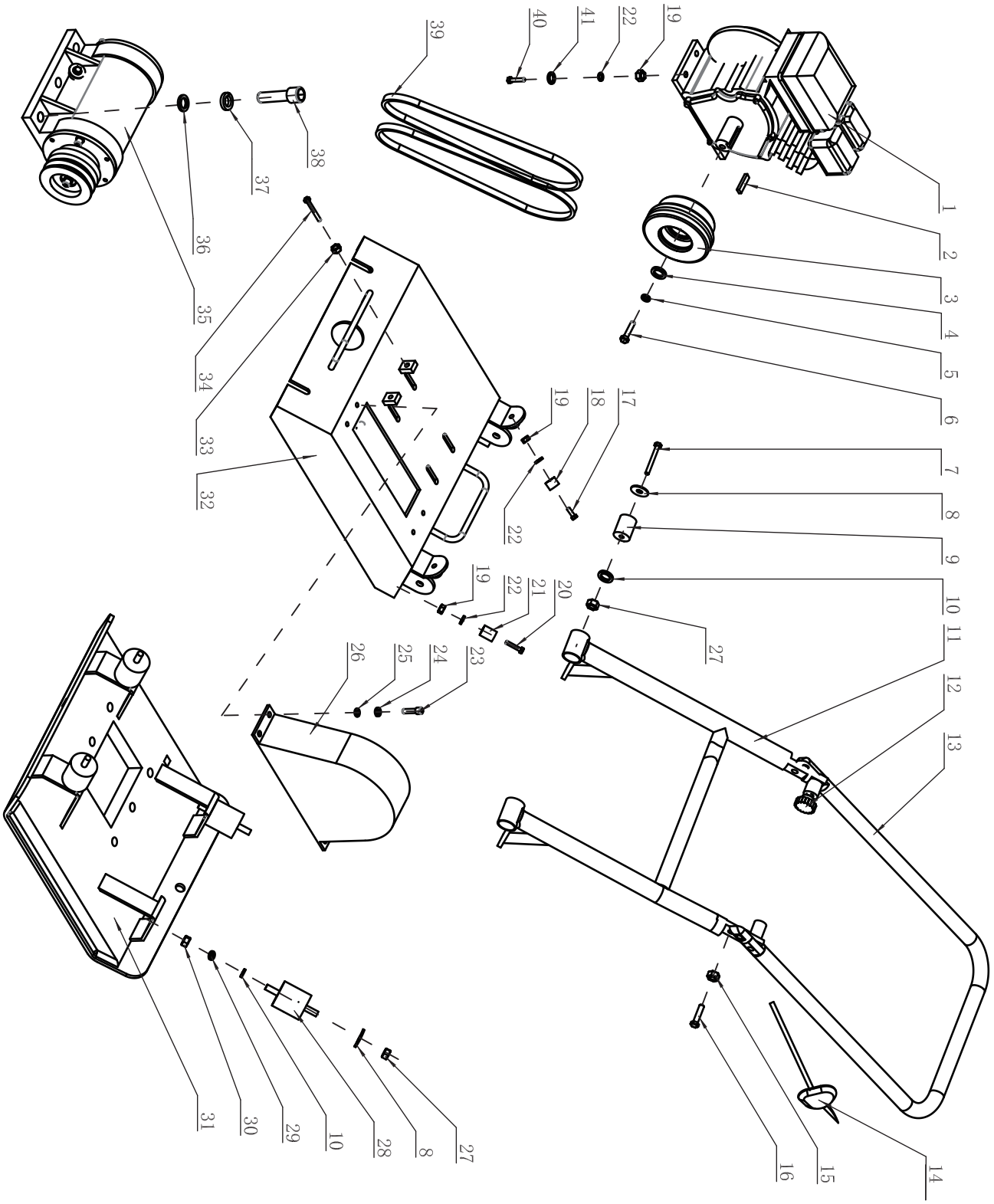
PARTS DIAGRAM (PC80H,PC80Z EXCITER SPARE)



PARTS LIST (PC80H,PC80Z EXCITER SPARE)

No.	Description	Specification	Qty.
1	Vibrating Case		1
2	Eccentric Shaft		1
3	Case Cover(Pulley)		1
4	Case Cover(shut-off)		1
5	Bearing	6211	2
6	Oil Seal	35*48*10	1
7	"O" Ring	100*3.1	2
8	Inner Hexagon bolt	M8*20	8
9	Inner Hole Bolt	M10*25	1
10	Flat Gasket	Ø8	8
11	Enlarged Flat Gasket	Ø10*35	1
12	Spring Washer	Ø10	1
13	Key	8*20	1
14	Pulley for Exciter		1
15	Oil Drainage Bolt	M12(thin)	1
16	Copper Gasket	Ø12	1

PARTS DIAGRAM (PC90H,PC90Z GENERAL ASSEMBLY)

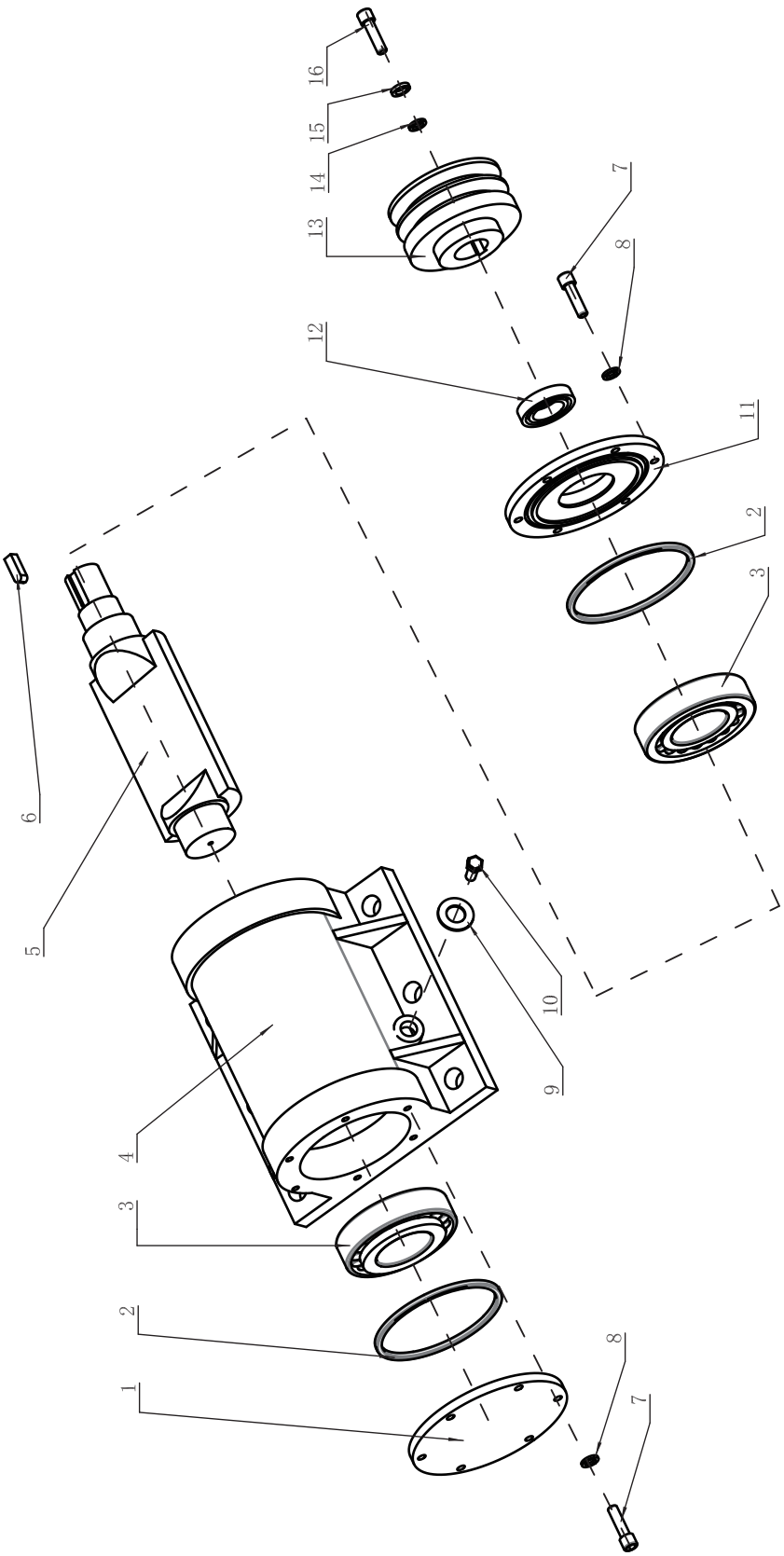


PARTS LIST (PC90H,PC90Z GENERAL ASSEMBLY)

No.	Description	Specification	Qty.
1	Engine		1
2	Key	5*40	1
3	Clutch Assembly		1
4	Conical Flat Gasket	8×30×6	1
5	Spring Gasket	Ø 8	1
6	External hexagon bolt	M8*30	1
7	External hexagon bolt	M12*70	2
8	Enlarged Flat Gasket	12*35	6
9	Handle Glue sheath		2
10	Flat Gasket	Ø 12	2
11	Lower handle		1
12	Locked Pin Assembly		2
13	Upper handle		1
14	Throttle Line Assembly		1
15	Locked Nut	M10	2
16	Flange Bolt	M10*35	2
17	Flat Cross Bolt	M8*25	4
18	Handle Damper	35*15	2
19	Locked Nut	M8	8
20	External hexagon bolt	M8*35	2
21	Handle lower Damper		2
22	Flat Gasket	Ø8	8
23	External hexagon bolt	M8*20	2
24	Spring Gasket	Ø8	2
25	Medium Flat Gasket	8*24	2
26	Belt Cover		1
27	Locked Nut	M12	6
28	Shock Absorber		4
29	Spring Gasket	Ø12	4

No.	Description	Specification	Qty.
30	Nut	M12	4
31	Bottom Plate		1
32	Engine Support Plate		1
33	Nut	M8	2
34	External hexagon bolt	M8*40	2
35	Exciter		1
36	Flat Gasket	Ø16	6
37	Spring Gasket	Ø16	6
38	Inner Hexagon bolt	M16*40	6
39	Belt	A-737	2
40	External hexagon bolt	M8*45	4
41	Enlarged Flat Gasket	8*30	4

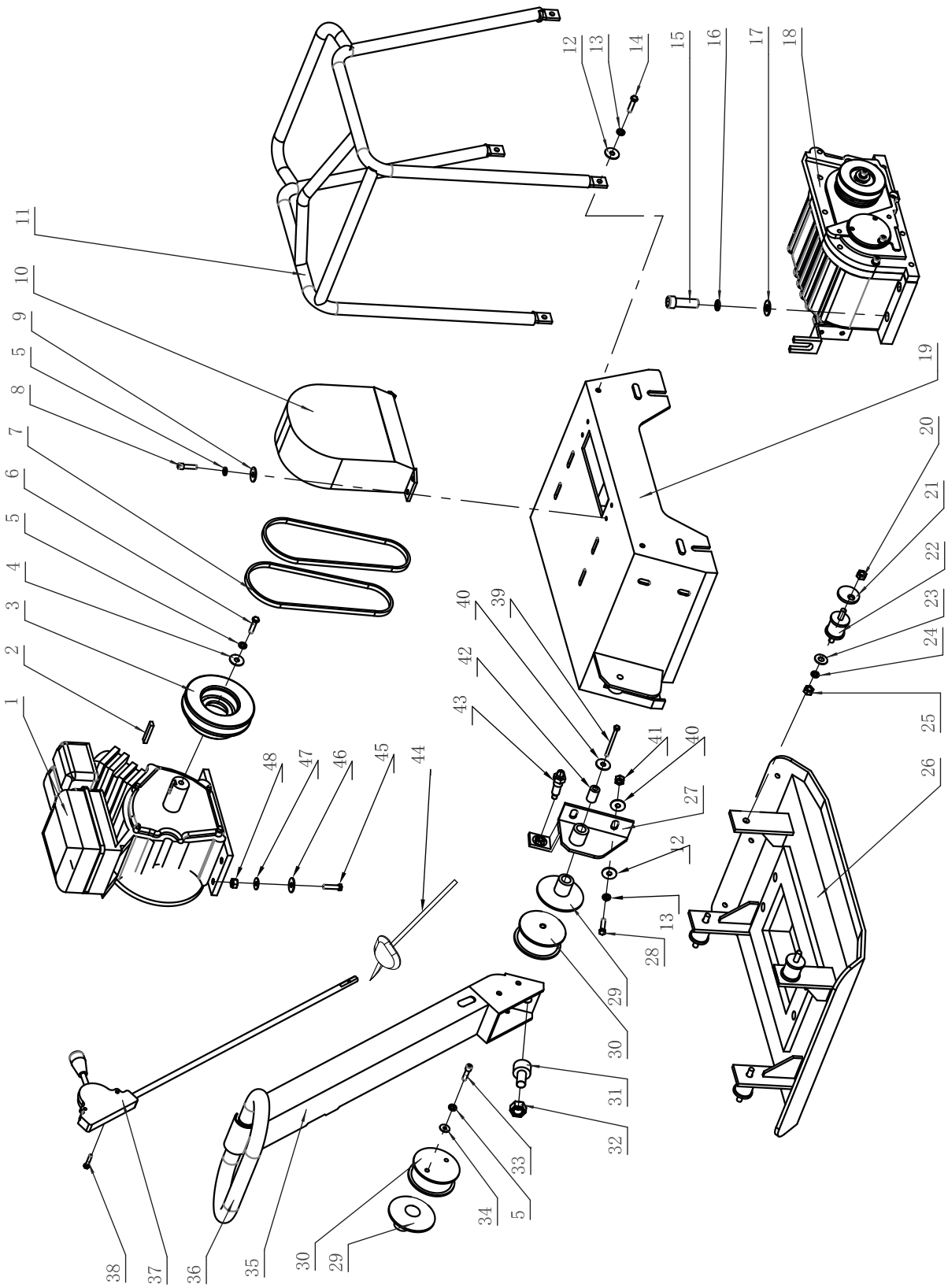
PARTS DIAGRAM (PC90H,PC90Z EXCITER)



PARTS LIST (PC90H,PC90Z EXCITER)

No.	Description	Specification	Qty.
1	Case Cover(shut-off)		1
2	"O" Ring	110*3.1	1
3	Bearing	6309	2
4	Vibrating Case		1
5	Eccentric Shaft		1
6	Key	8*30	1
7	Inner Hexagon bolt	M6*20	12
8	Flat Gasket	Ø6	12
9	Copper Gasket	Ø14	1
10	Oil Drainage Bolt	M14*1.5	1
11	Case Cover(Pulley)		1
12	Oil Seal	35*52*7	1
13	Pulley		1
14	Spring Gasket		1
15	Enlarged Flat Gasket	10*35	1
16	Inner Hexagon bolt	M10*25	1

PARTS DIAGRAM (PC150H,PC150Z,PC180H,PC180Z GENERAL ASSEMBLY)

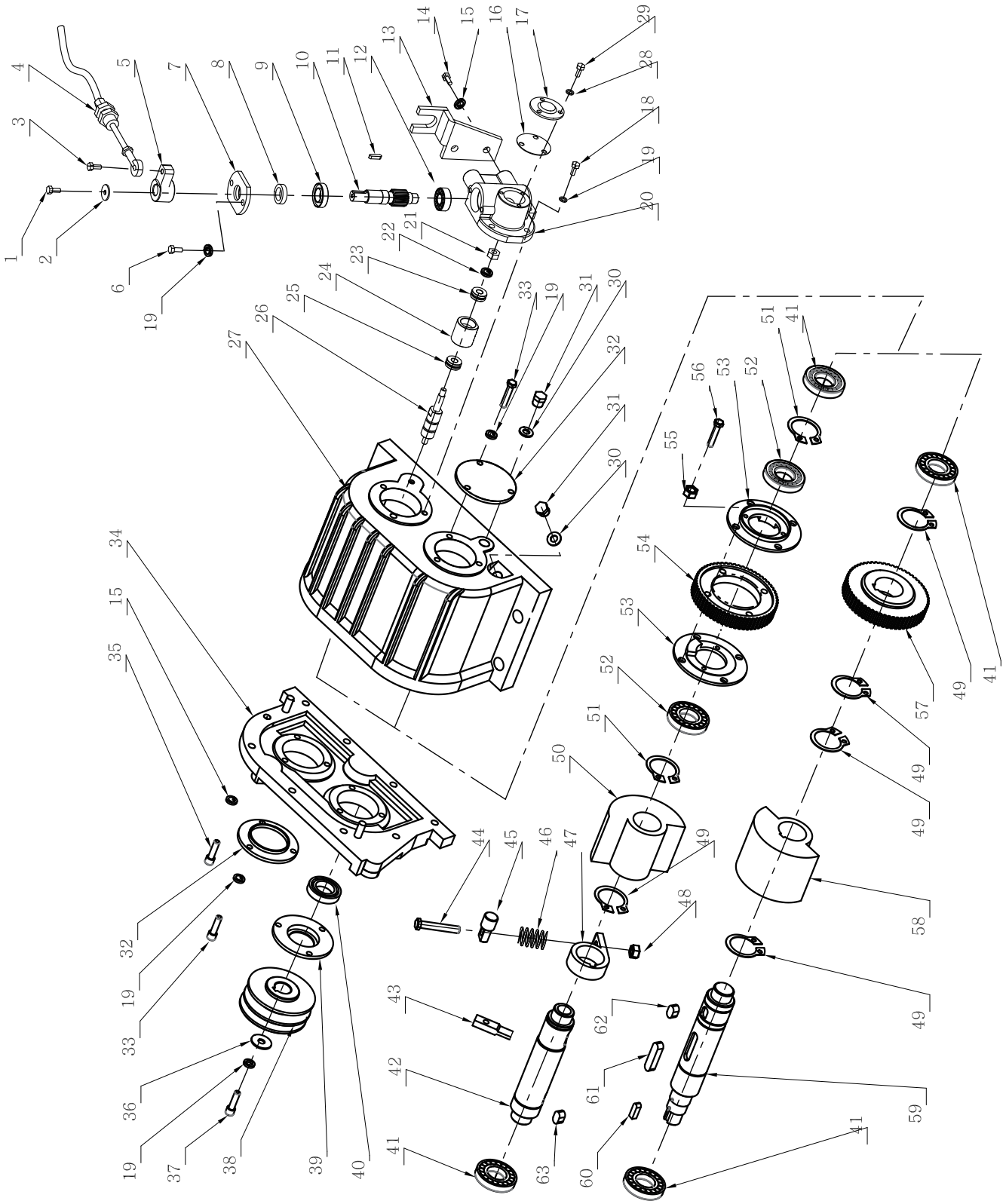


PARTS LIST (PC150H,PC150Z,PC180H,PC180Z GENERAL ASSEMBLY)

No.	Description	Specification	Qty.
1	Engine		1
2	Key	7*50	1
3	Clutch Assembly		1
4	Conical Flat Gasket	8×30×6	1
5	Spring Gasket	Ø 8	1
6	Extemal hexagon bolt	M8*30	1
7	Belt	B-940	2
8	Extemal hexagon bolt	8*20	2
9	Medium Flat Gasket	8*24	2
10	Belt Cover		1
11	Protective Frame		1
12	Flat Gasket	Ø 12	8
13	Spring Gasket		6
14	Extemal hexagon bolt	M12*35	4
15	Inner hexagon bolt	M18*50	4
16	Spring Gasket	Ø18	4
17	Flat Gasket	Ø18	4
18	Exciter		1
19	Engine Support Plate		1
20	Locked Nut	M14	4
21	Eccentric Gasket		4
22	Shock absorber		4
23	Flat Gasket	Ø14	4
24	Spring Gasket	Ø14	4
25	Nut	M14	4
26	Bottom Plate		1
27	Handle Joint Plate		1
28	Extemal hexagon bolt	M12*35	2
29	Handle glue sheath	Nylon	2

No.	Description	Specification	Qty.
30	Handle Damper		2
31	Handle Bottom Damper		1
32	Nut	M16	1
33	Inner hexagon bolt	M8*12	4
34	Flat Gasket	Ø8	4
35	Main Handle		1
36	Grip		1
37	Forward-Reversible Control		1
38	Inner hexagon bolt	M6*50	3
39	Extemal hexagon bolt	M12*60	2
40	Enlarged Flat Gasket	12*35	4
41	Nut	M12	2
42	Handle Liner tube		2
43	Locked Pin Assembly		1
44	Throttle Assembly		1
45	Extemal hexagon bolt	M10*50	4
46	Enlarged Flat Gasket	10*35	4
47	Flat Gasket	Ø 10	4
48	Locked Nut	M10	4

PARTS DIAGRAM (PC150H,PC150Z,PC180H,PC180Z EXCITER)



PARTS LIST (PC150H,PC150Z,PC180H,PC180Z EXCITER)

No.	Description	Specification	Qty.
1	Inner Hexagon bolt	M6*20	1
2	Enlarged Flat Gasket	6*22	1
3	Inner Hexagon bolt	M8*25	1
4	Dragline		1
5	Dragline Joint Sleeve		1
6	Inner Hexagon bolt	M8*20	2
7	Cover(Packing)		1
8	Oil Seal	20*30*7	1
9	Bearing	61904	1
10	Output Gear Shaft		1
11	Key	5*20	1
12	Bearing	30202	1
13	Dragline Fixed Plate		1
14	Inner Hexagon bolt	M10*25	2
15	Spring Gasket	ϕ10	2
16	End Cover paper gasket		1
17	Control Seat Cover		1
18	Inner Hexagon bolt	M8*25	3
18+	Inner Hexagon bolt	M8*50	1
19	Spring Gasket	ϕ8	16
20	Control Seat		1
21	Nut	M8	1
22	Flat Gasket	ϕ8	1
23	Bearing	1024	1
24	Gear Coupling		1
25	Bearing	1024	1
26	Small Shaft		1
27	Exciter Case		1
28	Spring Gasket	Φ6	3

No.	Description	Specification	Qty.
29	Inner Hexagon bolt	M6*16	3
30	Copper Gasket	Φ12	2
31	Hexagon Oil Drainage Plug	M12*1.25	2
32	Case Cover(shut-off)		2
33	Inner Hexagon bolt	M8*20	9
34	Case Cover		1
35	Inner Hexagon bolt	M10*30	9
36	Conical Gasket	8*30*6	1
37	Inner Hexagon bolt	M8*22	1
38	Pulley		1
39	Case Cover(Pulley)		1
40	Oil Seal	28*50*10	1
41	Bearing	NJ206	4
42	Eccentric Rotary Shaft(Driven)		1
43	Fork		1
44	External Hexagon bolt	M10*60	1
45	Bolt	M20*30	1
46	Buffering Spring		1
47	Buffering Ring		1
48	Locked Nut	M10	1
49	Clip	ϕ42	4
50	Eccentric Rotator(Driven)		1
51	Clip	ϕ40	2
52	Bearing	16008	2
53	Clutch Assembly Plate		2
54	Gear		1
55	Nut	M8	4
56	External Hexagon bolt	M8*30	4
57	Gear		1
58	Eccentric Rotator(Drive)		1
59	Eccentric Rotary Shaft(Drive)		1

No.	Description	Specification	Qty.
60	Key	8*30	1
61	Key	12*50	1
62	Key	12*20	1
63	Key	10*20	1

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info@mechmaxx.com