

OPERATING AND SAFETY INSTRUCTION MANUAL

PLATE COMPACTOR BTPC60RH - BTPC60H - BTPC70H - BTPC95H - BTPC110Y - BTPC160H - BTPC160Y - BTPC240Y - BTPC350Y - BTPC405Y



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1. INTRODUCTION

We thank you very much for investing in a Beton Trowel Compaction Machine. Your return on capital investment will be well rewarded with high performance and a long trouble free life of your machine. The use of the best materials and careful precision machining of parts will ensure this.



2. SPECIFICATION

[illegible]

3. NOISE & EMISSION

Noise emission:

weight sound pressure level at work station: 102dB

Working Station: 84dB

The sound power level: 108dB

Note: the measurement is according to EN500-1:2006

Vibration emission:

Measured vibration emission value a: 4,9 m/s²

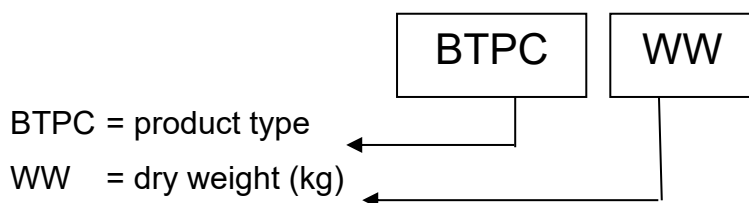
Arm Vibration: 79 m/s²

Uncertainty K: 789

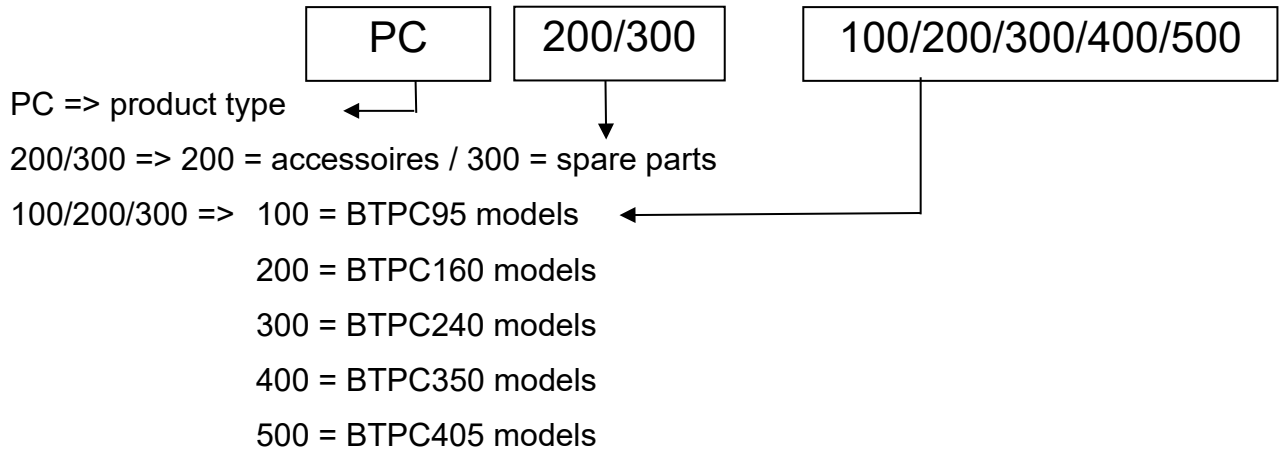
Note: the measurement is according to EN ISO 20643:2005

4. HOW TO READ PRODUCT CALL NUMBER AND PART NUMBER

The product model number definition is as follow



The part number definition is as follow



NAMEPLATE



BETON TROWEL NV

Model: Kg:

Serial No:



NIJVERHEIDSSTRAAT 10 1840 LONDERZEEL BELGIUM

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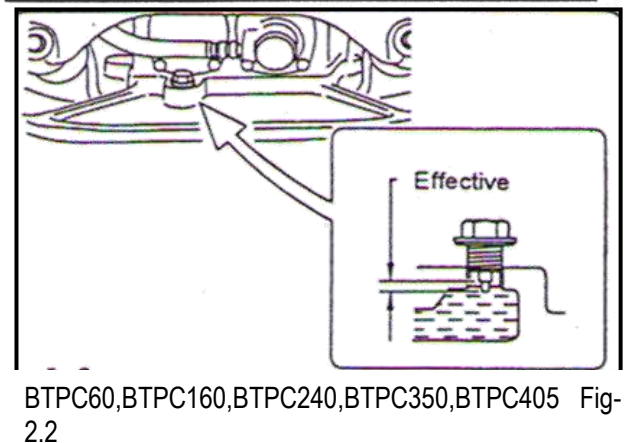
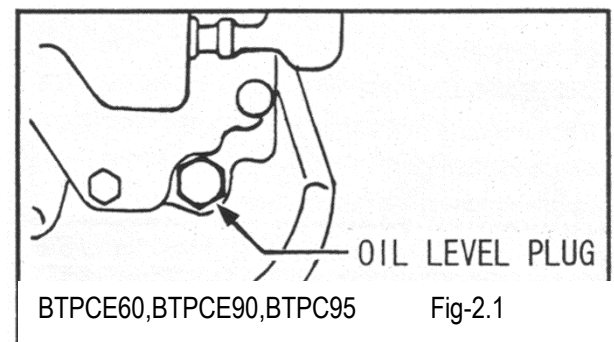
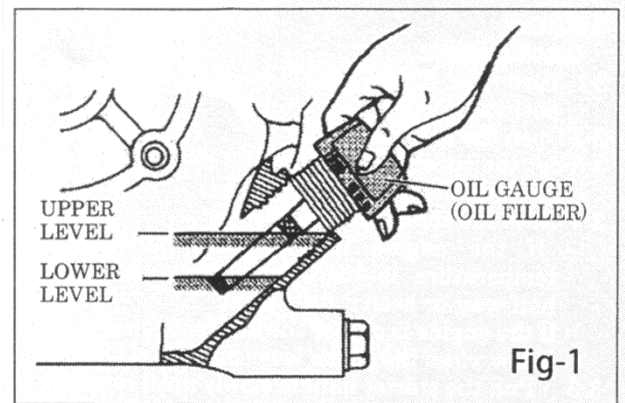
5. BEFORE STARTING YOUR OPERATION

1. Make sure that all dirt, mud, etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom 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 10-15mm (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 level is low, it should be refilled. Use the Proper motor 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-2.1 & Fig-2.2)

IMPORTANT:

Use the Motor 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.

Season	Temperature	Oil to be used
Summer	25°C or higher	SAE#30
Spring/Fall	25°C ~ 10°C	SAE#30, #20
Winter	0°C or lower	SAE#10

7. For reversaible models, the following hydraulic oil is recommended: Shell Tulles M3 S32 (400ml)

6. ENGINE STARTING

Petrol Engine (FOR BTPC95H & BTPC160H)

1. Align fuel cock lever with FLOW position (Fig.3)
2. When cold or somehow starting is difficult, turn choke lever to START position. This is not necessary when engine is warm. (Fig.4)
3. Turn governor lever slightly to high speed side. (Fig.5)
4. Turn engine start switch to ON position. (Fig.6)
5. Hold recoil starter grip and pull it slightly until you feel light resistance. Pull it strongly there. Be careful not to pull it too hard however because it may come off. Do not release the grip from the pulled position but return it to starter case before releasing. (Fig.6)
6. If engine has started, while listening to explosion sound, slowly return the choke lever to OPERATION position. (Fig.7)

After started, be sure to run the engine at low speed for a few minutes. It must be done in cold climate in particular. Check for abnormal noise of gas leak in the meantime.

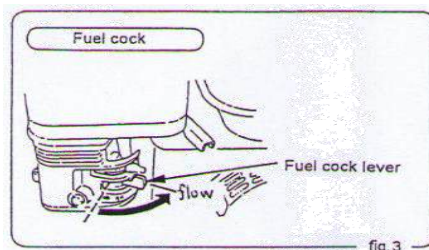


fig. 3

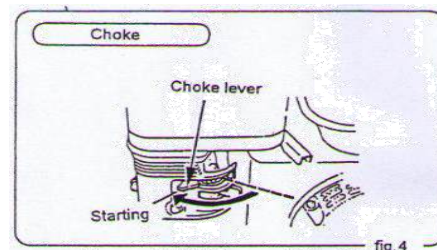


fig. 4

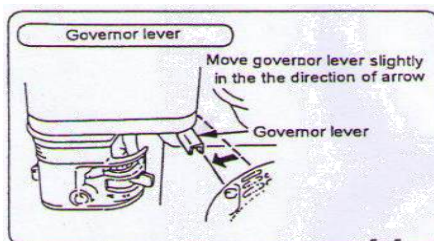


fig. 5

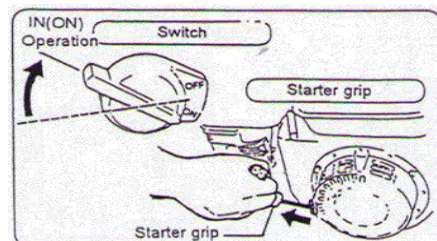


fig. 6

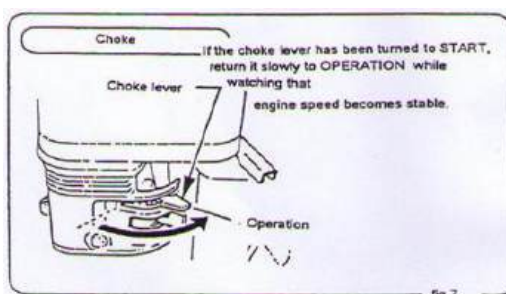


fig. 7

Diesel Engine (FOR BTPC160Y & BTPC240Y & BTPC350Y & BTPC405Y)

1. Turn the throttle lever to START position (open by about 30 degrees) (Fig.8)
2. Operate Starter
In cast of self starter
 - A. Insert the key into starter switch
 - B. Turn the key to I (Run) mark.
 - C. Turn the key further clockwise to (Start) mark and the engine will start. (Fig.9)
3. After starting 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. While doing this, check for abnormal sound of gas leaking.

CAUTION



If your engine fails to start, do not rotate Starter motor for more than 5 seconds Continuously, but return the key to (Run) mark and wait for 10 seconds or so, before attempting again.



CAUTION

While your engine is running, never turn the key switch to (Star) Mark

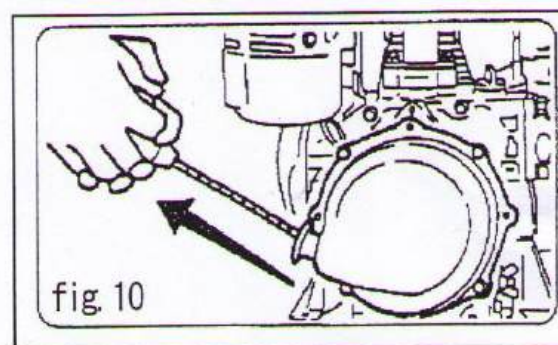
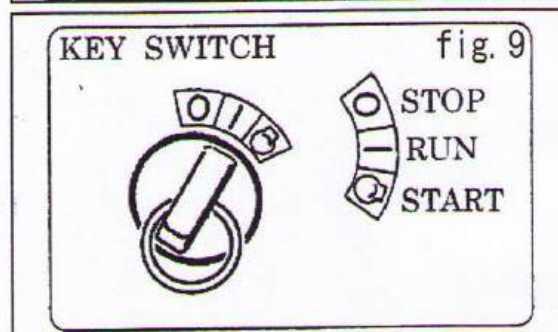
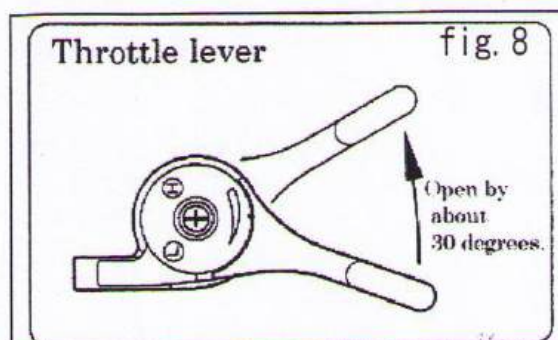


CAUTION

In case you start with recoil starter or cranking, the key should be placed in I (Run) position as well.

In case of recoil starter

By pulling the starter knob slowly, you will reach such point where resistance becomes strong (compression point). By pulling it further, you will find a point where resistance is reduced. Return the knob but slowly return it original position. (Fig. 10)





CAUTION

Don't pull the rope all the way and don't take your hand off the pulled knob but slowly return it to original position.

7. OPERATION

Single Plate Compactor (For BTPC95H):

1. As the engine warms up, gradually move the choke lever to the OPEN position.
2. Move the speed control lever from the LOW to the HIGH position. When the engine speed reaches approximately 2300-2600 RPM, 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.

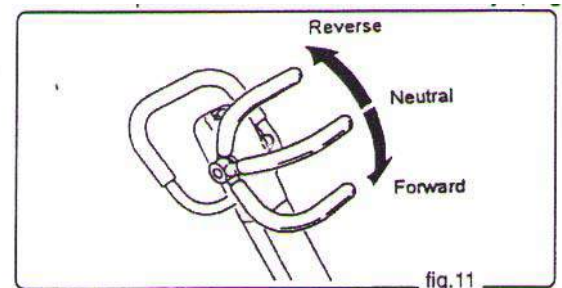
Reversible Plate Compactor (For BTPC160H, BTPC160Y, BTPC240Y, BTPC350Y, BTPC405Y):

1. Opening the governor lever sharply causes the compactor to start working (Fig. 5)

When the engine speed reaches around 2300rpm, centrifugal clutch will be engaged.

The lever should be operated quickly without hesitation, because increasing the engine speed slowly causes the clutch to slip.

2. Operate travel lever to have compactor travel forward or reverse. Push the lever forward for forward travel, pull it back for reverse and place it in neutral for vibration in place. (Fig.11)
3. When you work on soil which contains clay, there may be cases where traveling speed drops because compaction plate does not leave ground surface as easily. Check the bottom of plate to see if clay has not stuck there. Incidentally, because the compactor can not be as efficient on clay of high moisture content then allow soil to dry to appropriate moisture content level or carry out compaction twice.
4. To discontinue your work, contrary to the starting time, return the governor lever quickly to LOW position. Do not move it slowly. (Fig. 5)





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CAUTION

While engine is stopped, operating travel lever back and forth a few times causes the lever to be locked at forward position.

This does not mean it is in trouble but the check valve within hand pump is actuated. Do not try to operate the lever forcibly. The travel lever will operate normally when the engine is started and vibrator is in action.

8. STOPPING

For stopping the engine with your work discontinued, return the throttle lever to low position to be in idle state for 2-3 minutes. After cooling down engine, stop the engine completely.

Petrol Engine (FOR BTPC95H & BTPC160H)

- a. Turn the engine switch to off (O) position to stop.
- b. After stopping the engine, align the fuel cock lever to off (O) position.

**CAUTION**

If the engine is stopped while it is still hot, it may hasten wear such as burn out of oil slick in cylinder.

Diesel Engine (FOR BTPC160Y & BTPC240Y & BTPC350Y & BTPC405Y)

- a. Return the throttle lever forward original position to stop.
- b. For electric start, turn around the key switch to off (O) position to stop.

9. TRANSPORTATION & INSTALLATION

Transportation Safety:

CAUTION



- ◆ Shutdown the engine during transport.
- ◆ Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- ◆ Drain fuel before transporting over long distance or on poor road.
- ◆ Lock the machine securely so the machine does not move or topple over.
- ◆ Operators for movement and installation shall hold a qualification certificate.
- ◆ Please move the press with proper, safe and reliable tools.

Installation Safety:

CAUTION



- ◆ The field installation after unpacking shall follow requirements in this manual.
- ◆ Installation conditions:
Ambient temperature: 5°C~40°C; no rapid changes causing dew.
Ambient humidity: 45%~65% (no dew)

10. TROUBLE SHOOTING

1. Engine

(1) Starting deficient

Fuel is available but spark plugs do not spark	Power available at high voltage cord	Spark plugs bridged.
		Carbon deposit on spark plug.
		Short-circuit due to deficient spark plug insulation.
		Improper spark plug gap.
	Power not available at high voltage cord	ON-OFF switch short circuiting.
		Ignition coil defective.
		Point not clean or gap improper.
		Condenser insulation deficient or short – circuiting.
Fuel available and spark plugs spark	Compression is proper	Spark plug coil broken or short – circuiting.
		Wrong fuel in use.
		Water or dust entered.
	Compression deficient	Air cleaner not clean.
		Suction/exhaust valve stuck or protruded.
		Piston ring and/or cylinder worn.
		Cylinder head and/or spark plug not tightened properly.
		Head gasket and/or spark plug gasket damaged.
Fuel not available at carburetor	Fuel not available in fuel tank.	
	Fuel cock not opened properly.	
	Fuel filter clogged.	
	Tank cap bleed hole clogged.	
	Aeration in piping.	

(2) Operation deficient

Weak in power	Compression is proper and doesn't misfire.	Air cleaner not clean
		Carbon deposit in cylinder
		Improper oil level in carburetor
	Compression insufficient (See "Compression deficient" above)	
	Compression is proper yet misfires	Water in tank
		Spark plug not clean
		Ignition coil defective
		Spark plug occasionally short-circuits
Engine overheated	Carbon deposit in combustion chamber or around exhaust port	
	Spark plug heat value improper	
	Cooling fins not clean.	
Rotational speed fluctuates	Governor adjustment deficient	
	Governor spring defective	
	Fuel flow deficient	
	Air taken in through suction piping system	

(3) Recoil starter function deficient

Recoil starter function deficient	Rotor clogged with dust
	Spiral spring failure due to fatigue

2. Machine

Travel speed slow and vibration weak	Engine output deficient and high speed revolution setting improper
	Clutch slips
	V-belts slips
	Excessive oil in vibrator
	Defect in vibrator internals
Travel forward or reverse but impossible to switch direction	Reversing parts defective
	Reversing lever installation deficient
	Oil hose broken
	Aeration in hydraulic oil for reversing system
	Check valve in hand pump clogged with dust
Dows not travel either forward or reverse	Piston bearing in cylinder defective
	V-belt disengaged or slips
	Clutch slips
	Vibrator locked
	Piston bearing in cylinder defective
Travel lever operating resistance great	Gall of hand pump piston
	Gall of vibrator cylinder piston

11. SAFETY LABELS

		
Fire risk	Operate only in well-ventilated area	Do not stand next to machine while lifting
		
Wear ear protection	Do not touch moving parts in operation	Read operator's manual carefully before use

OPERATIONAL CAUTION

1. Please ensure there are enough machine oil and fuel level before operate.
2. Warm the engine 3 to 5 minutes before operate.
3. Please operate machine at the full speed.
4. Move the stop swift to "O (off)" position to stop the machine.

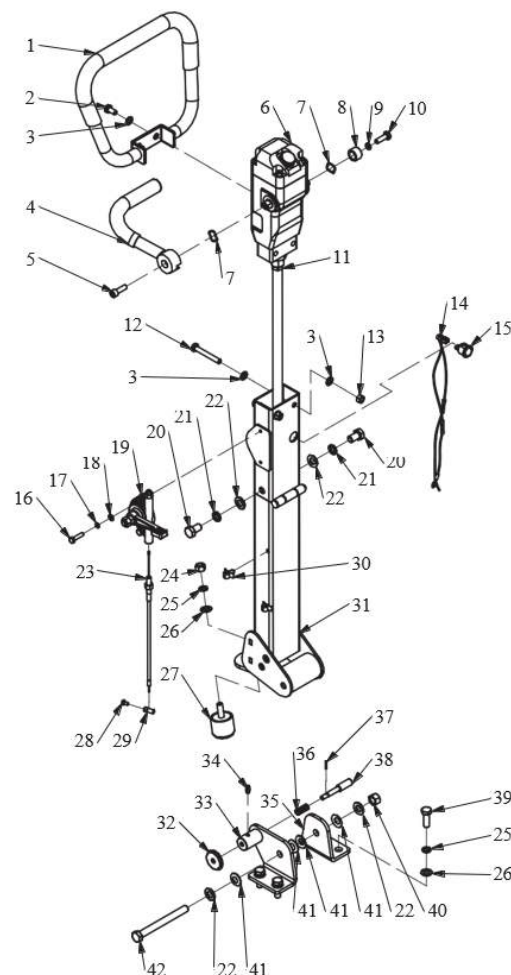
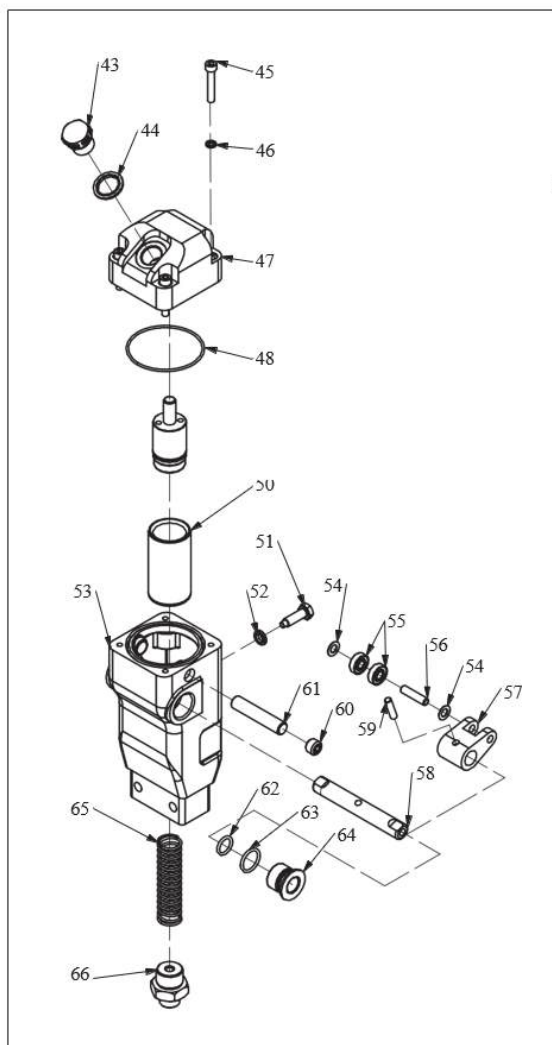
DON'T MOVE THE TRAVEL LEVER IF ENGINE STOPS



12. SPARE PARTS LIST BTPC60RH CONTROL

No.	Description	Drawing No.	Qty
1	Handle Grip	2301-04000-3	1
2	Bolt M8	15080160	2
3	Washer M8	11080000	6
4	Travel Lever	2301-05000-3	1
5	Allen Screw M8	16082503	2
6	Handle Pump Assy.	2302-14000-1	1
7	Wave Washer	14220005	2
8	Collar	2302-00032-4	1
9	Washer M8	12080000	1
10	Bolt M8	15080250	1
11	Oil Hose	2301-00005-4	1
12	Bolt M8	15080601	2
13	Lock Nut M8	13080001	2
14	Wire	2301-09000-1	1
15	Switch	2302-00015-4	1
16	Bolt M6	15060250	2
17	Spring Washer M6	12060000	2
18	Washer M6	11060000	2
19	Trottle Lever Assy.	2302-09000-3	1
20	Bolt M12	15120200	2
21	Spring Washer M12	12120000	2
22	Washer M12	11120000	4
23	Throttle Wire	1101-06000-4	1
24	Lock Nut M10	13100001	1
25	Spring Washer M10	12100000	5
26	Washer M10	11100000	5
27	Shock Absorber, Handle	2302-00001-4	1
28	Screw M5	16050801	1
29	Lock Nut	2204-00021-4	1
30	Wire Clip	70000002	2
31	Handle Assy.	2301-08000-4	1
32	Knob	2302-00010-4	1
33	Handle Bracket (Right)	2301-14000-3	1

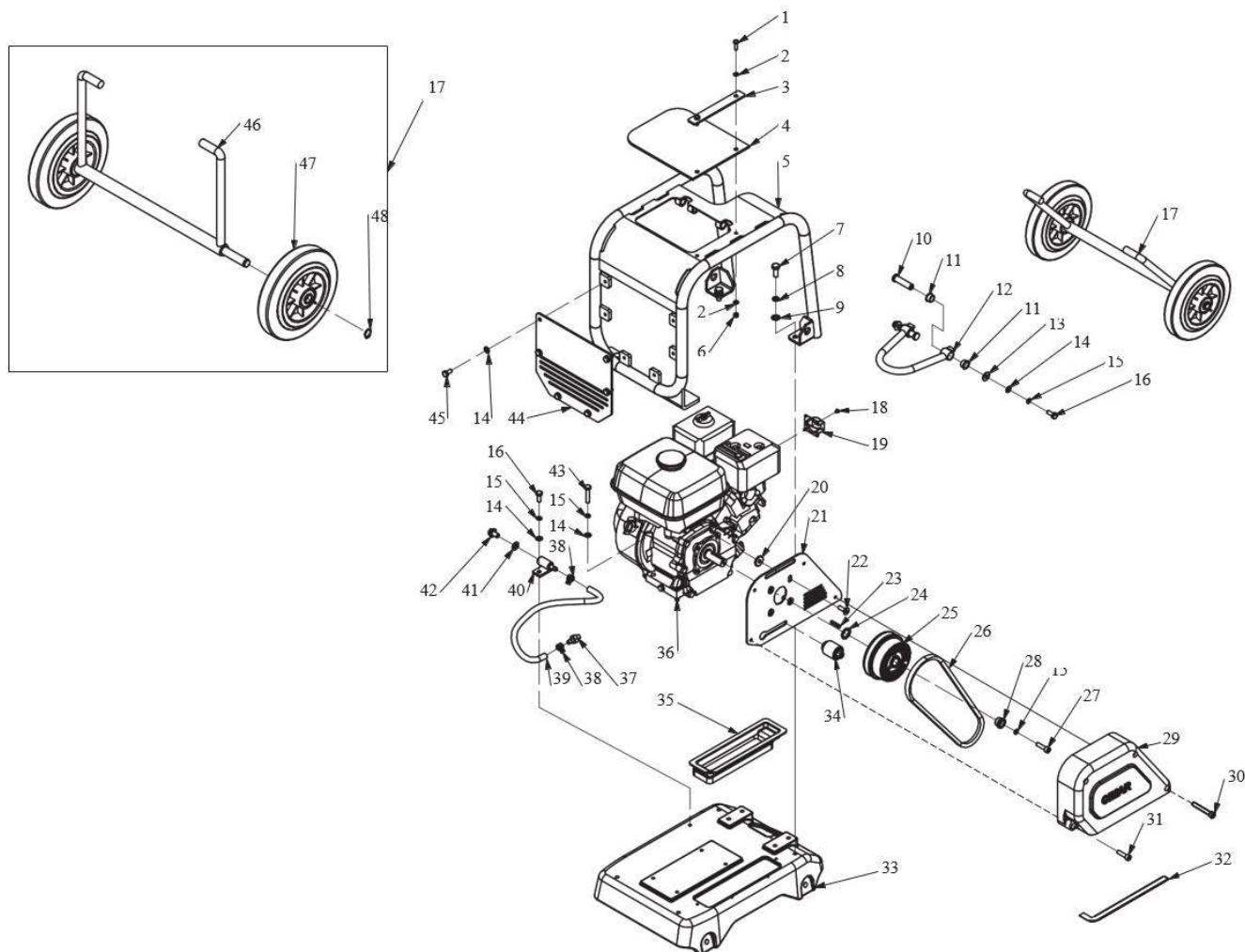
No.	Description	Drawing No.	Qty
34	Grease Inlet	70000011	1
35	Handle Bracket (Left)	2301-00006-2	1
36	Spring	2302-00041-4	1
37	Spring Pin	19021601	1
38	Pin	2302-00045-4	1
39	Bolt M10	15100300	4
40	Lock Nut M12	13120001	1
41	Wave Washer M12	14120005	4
42	Bolt M12	15121201	1
43	Breather Cap	2302-14200-1	1
44	Sealing	14200002	1
45	Allen Screw M6	16063503	4
46	Spring Washer M6	12060000	4
47	Cover, Handle Pump	2302-14011-1	1
48	O-Ring	2607002	1
49	Piston CP	2302-14100-1	1
50	Bush	2302-14008-1	1
51	Bolt M8	2302-14003-1	1
52	Spacer M8	14080002	1
53	Body, Handle Pump	2302-14007-1	1
54	Nylon Washer	2302-00025-4	2
55	Bearing	21607-2Z	2
56	Pin	2302-14005-4	1
57	Can	2302-14009-1	1
58	Shaft	2302-14004-1	1
59	Pin	2302-14012-4	1
60	Plug	2302-14002-4	1
61	Stopper	2302-14013-4	1
62	O-Ring	260192.5	2
63	O-Ring	260242.5	2
64	Bush	2302-14001-1	2
65	Spring	2302-14010-4	1
66	Hose Joint	2302-14006-4	1



ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Bolt M6	15060200	2
2	Washer M6	11060000	4
3	Plate, Rubber Cover	2302-00024-1	1
4	Rubber Cover	2302-00029-1	1
5	Frame	2301-06000-4	1
6	Lock Nut M6	13060001	2
7	Bolt M10	15100250	4
8	Spring Washer M10	12100000	4
9	Washer M10	11100000	4
10	Pin	2302-00047-4	2
11	Bush	2302-00048-4	4
12	Hook	2302-11000-4	1
13	Washer M8	11082202	2
14	Washer M8	11080000	13
15	Washer M8	12080000	8
16	Bolt M8	15080200	3
17	Wheel Kits	2301-12000-3	1
18	Screw M4	16040601	2
19	Exhaust Outlet	18340-ZE1-010C	1
20	Washer M8	11082604	4
21	Belt Cover Plate	2301-00007-2	1
22	Allen Screw M8	16082504	4
23	Key	12050530A	1
24	Spacer	70000048	1
25	Clutch Assy.	2301-03000-1	1
26	Belt	27AV13X836La	1
27	Allen Screw M8	16083015	1
28	Washer	2302-00017-4	1
29	Belt Cover Out	2301-00022-1	1
30	Allen Screw M8	16086013	3
31	Allen Screw M8	16083003	1
32	Sponge Sealing	2302-00064-4	1
33	Engine Base	2301-00002-4	1
34	Belt Tesioner	2303-16000-1	1

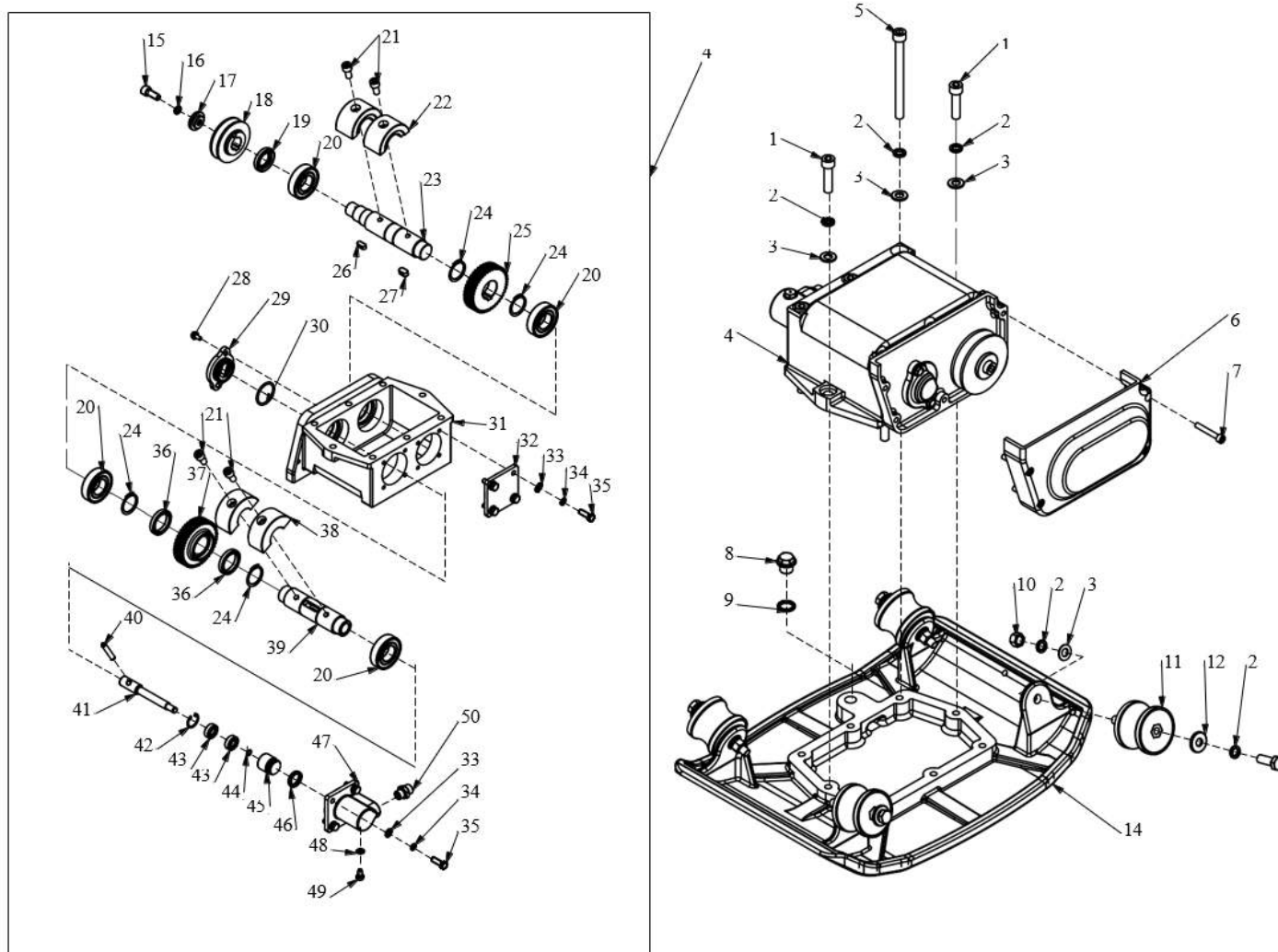
No.	Description	Drawing No.	Qty
35	Dust Cover	2301-00003-4	1
36	Engine	25160001	1
37	Hose Joint	2302-00014-1	1
38	Clamp	70000003	2
39	Drain Hose	2301-00030-1	1
40	Plug	2302-06000-3	1
41	Washer M10	70000004	1
42	Plug	70101016	1
43	Bolt M8	15080400	4
44	Front Cover, Frame	2301-00010-2	1
45	Bolt M8	15080160	6
46	Bracket, Wheel Kits	2301-12100-3	1
47	Wheel	24200602	2
48	Circlip	18160001	2



VIBRATOR AND PLATE

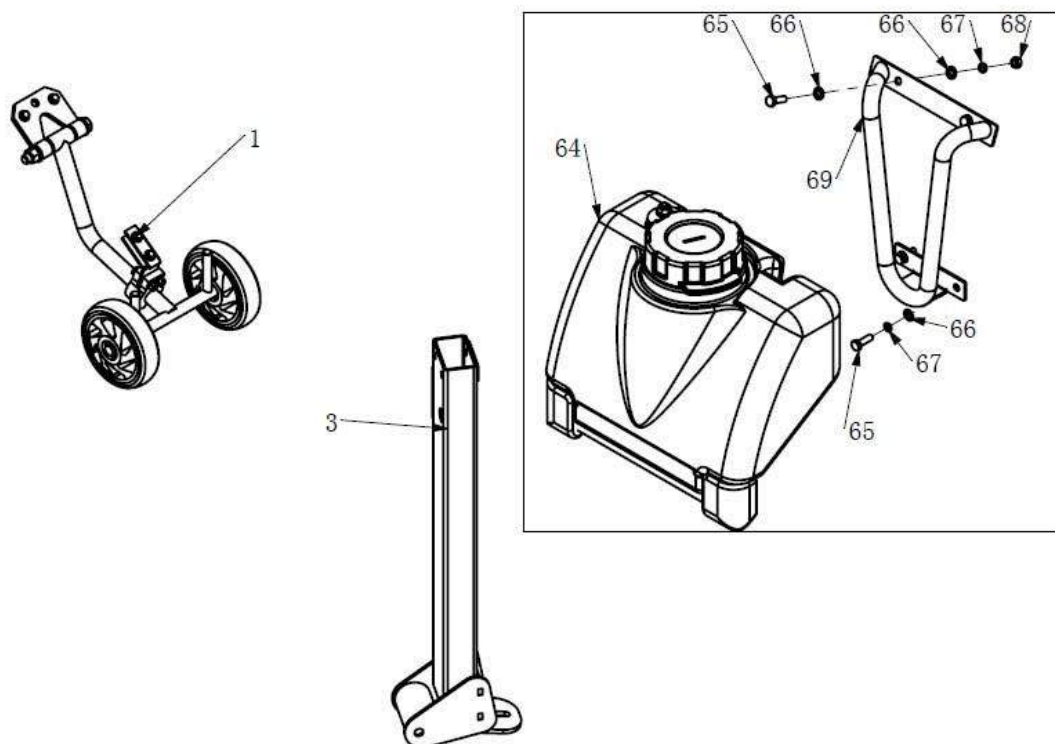
No.	Description	Drawing No.	Qty
1	Allen Screw M10	16104003	2
2	Spring Washer M10	12100000	16
3	Washer M10	11100000	12
4	Vibrator Assy.	2301-02000-1	1
5	Allen Screw M10	16112013	6
6	Belt Cover Lower	2301-00004-1	1
7	Allen Screw M6	16064003	5
8	Plug	70161512	1
9	Sealing	14160002	1
10	Lock Nut M10	13100001	4
11	Shock Absorber	2301-01000-4	4
12	Washer M10	11102503	4
13	Bolt M10	15100300	4
14	Vibrating Plate	2301-00001-4	1
15	Allen Screw M10	16100253	1
16	Spring Washer M10	12100000	1
17	Washer	2301-02012-4	1
18	Pulley	2301-02010-4	1
19	Oil Sealing	2528450802	1
20	Bearing	216206-2Z	4
21	Allen Screw M10	16102011	4
22	Eccentric Rotator, Drive	2301-02007-4	2
23	Rotary Shaft, Drive	2301-02006-4	1
24	Circlip	18350001	4
25	Gear, Drive	2301-02003-4	1
26	Key	20080719A	1
27	Key	20100818A	1
28	Bolt M6	15060122	2
29	Sealing Cap	2302-13009-1	1
30	O-Ring	260433.1	1
31	Vibrator Case	2301-02001-1	1
32	Bearing Cover, Drive	2301-02009-1	1
33	Washer M8	11080000	8
34	Washer M8	12080000	8

No.	Description	Drawing No.	Qty
35	Bolt M8	15080250	8
36	Bearing	2161807-2Z	2
37	Gear, Driven	2301-02004-4	1
38	Eccentric Rotator, Driven	2301-02008-4	2
39	Rotary Shaft, Driven	2301-02005-4	1
40	Pin	2301-02013-4	1
41	Piston	2301-02002-4	1
42	Circlip	18260002	1
43	Bearing	216000-2Z	2
44	Spring Washer M10	18100004	1
45	Piston	2302-13005-1	1
46	Oil Sealing	2222.43005	1
47	Cylinder	2301-02011-4	1
48	Spacer M8	14080002	1
49	Blot M8	2302-13004-1	1
50	Joint	2302-13006-4	1

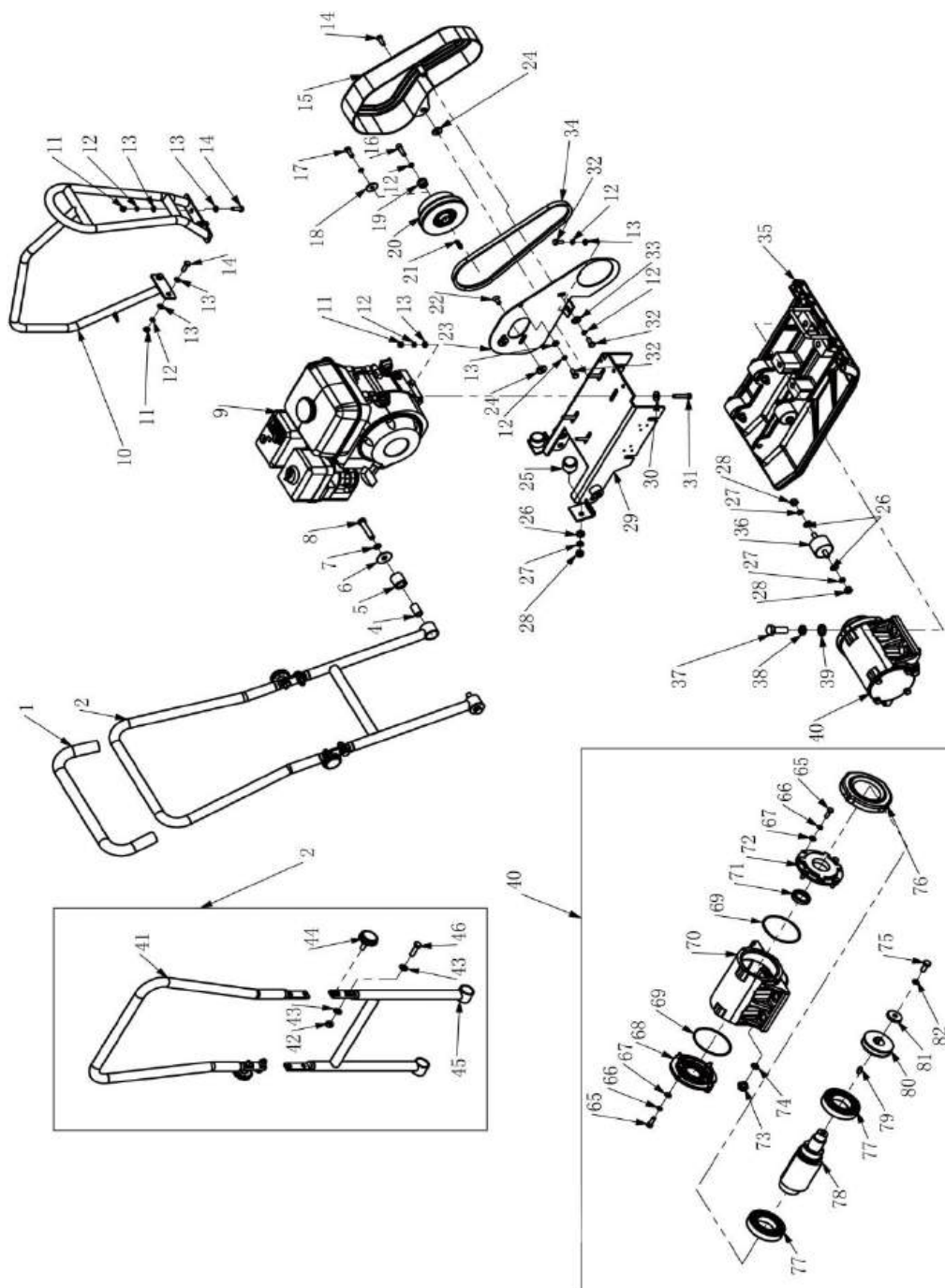


OPTIONAL

No.	Description	Drawing No.	Qty
1	Wheel Kits	2301-11000-1	1
3	Handle Assy.	2302-05000-3	1
64	Water Tank Assy.	2204-30000-4	1
65	Bolt M8	15080250	4
66	Washer M8	11080000	6
67	Washer M8	12080000	4
68	Lock Nut M8	13080001	2
69	Bracket, Water Tank	2301-13100-3	1



13. SPARE PARTS LIST BTPC60H



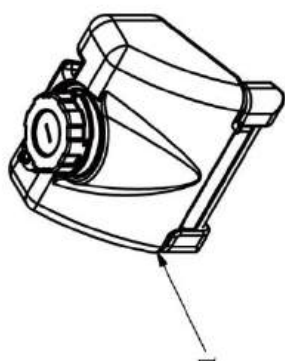
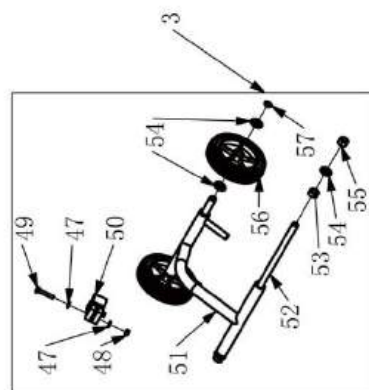
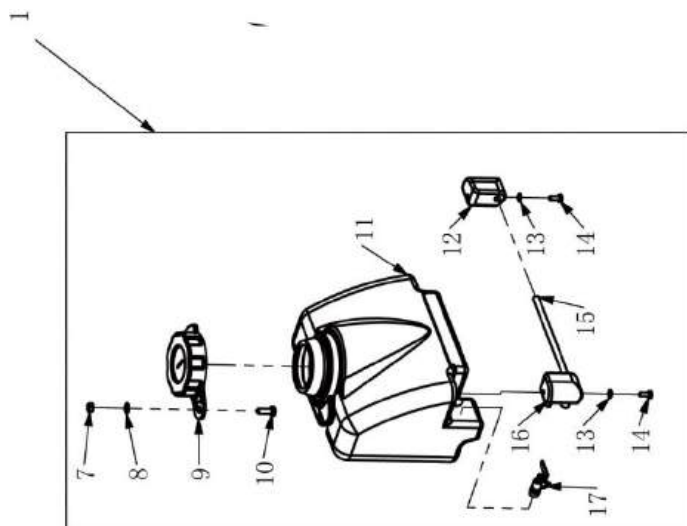
MAIN

No.	Description	Drawing No.	Qty
1	Handle Grip	2202-00020-4	1
2	Handle Assy.	2202-02000-1	1
4	Bushing	2202-00001-1	2
5	Rubber Bushing	2202-00003-4	2
6	Washer M12	11124003	2
7	Spring Washer M12	12120000	2
8	Bolt M12	15120601	2
9	Engine	25160001	1
10	Frame	2202-10000-1	1
11	Nut M8	13080000	8
12	Washer M8	12080000	13
13	Washer M8	11080000	14
14	Bolt M8	15080250	5
15	Belt Cover	2202-05000-4	1
16	Allen Screw M8	16083015	1
17	Bolt 5/16	15080300Y	1
18	Washer M8	11083003	1
19	Washer	2302-00017-4	1
20	Clutch Assy.	2302-10000-1	1
21	Key	12050530A	1
22	Allen Screw M8	16082004	2
23	Belt Cover Plate	2202-00009-2	1
24	Washer M8	11082604	3
25	Shock Absorber	2202-00004-4	2
26	Washer M10	11100000	11
27	Spring Washer M10	12100000	11
28	Lock Nut M10	13100001	11
29	Engine Base	2202-07000-3	1
30	Washer M8	11082403	4
31	Bolt M8	15080450	4
32	Bolt M8	15080200	3
33	Washer M8	11082202	2
34	Belt	27AV13X836La	1

35	Viberating Plate	2202-00005-4	1
36	Shock Absorber	2202-00002-4	4
37	Bolt M16	15160450	4
38	Spring Washer M16	12160000	4
39	Washer M16	11160000	4
40	Viberating Case Assy.	2202-20000-1	1
41	Handle Upper	2202-02200-3	1
42	Lock Nut M10	13100001	2
43	Washer M10	11100000	4
44	Wing Bolt	28100201	2
45	Handle Lower	2202-02100-3	1
46	Bolt M10	15100350	2

MAIN

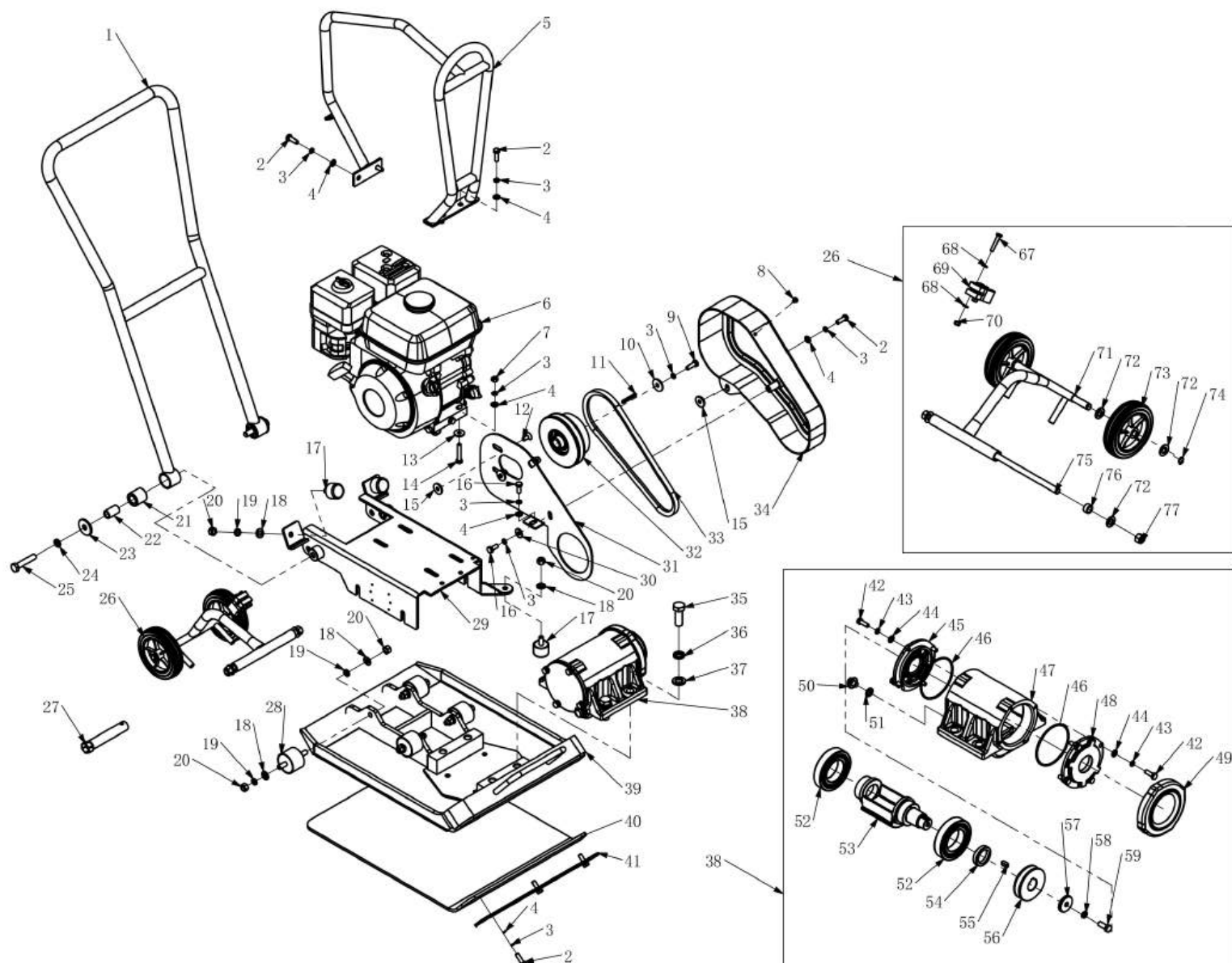
No.	Description	Drawing No.	Qty
65	Bolt M8	15080250	8
66	Washer M8	12080000	8
67	Washer M8	11080000	8
68	Right Cover	2202-20006-1	1
69	O-Ring	261053.1	2
70	Viberating Case	2202-20002-1	1
71	Oil Sealing	2535481002	1
72	Left Cover	2202-20005-1	1
73	Plug	70000019	1
74	Sealing	14120002	1
75	Bolt M10	15100250	1
76	Dust Cover	2202-20004-4	1
77	Bearing	216211C3P6	2
78	Rotator	2202-20001-1	1
79	Key	20080719A	1
80	Pulley	2202-20003-1	1
81	Washer M10	11104005	1
82	Spring Washer M10	12100000	1



OPTIONAL

No.	Description	Drawing No.	Qty
1	Water Tank Assy.	2204-31000-4	1
3	Wheel Kits	2202-04000-1	1
7	Lock Nut M10		1
8	Washer M10		2
9	Cap, Water Tank	2204-30005-4	1
10	Bolt M10		1
11	Water Tank	2204-31001-4	1
12	Rubber Pipe Holder	2204-30010-4	1
13	Washer M8		2
14	Bolt M8		2
15	Pipe	2204-30009-4	1
16	Rubber Pipe Connector	2204-30008-4	1
17	Switch	2204-30011-4	1
47	Washer M6	11060000	4
48	Lock Nut M6	13060001	2
49	Bolt M6	15060350	2
50	Clip	2302-23003-4	1
51	Bracket, Wheel Kits	2202-04100-3	1
52	Shaft	2202-04001-1	1
53	Spacer	2202-04002-4	2
54	Washer M12	11120000	6
55	Lock Nut M12	13120001	2
56	Wheel	24125302	2
57	Circlip	18120001	2

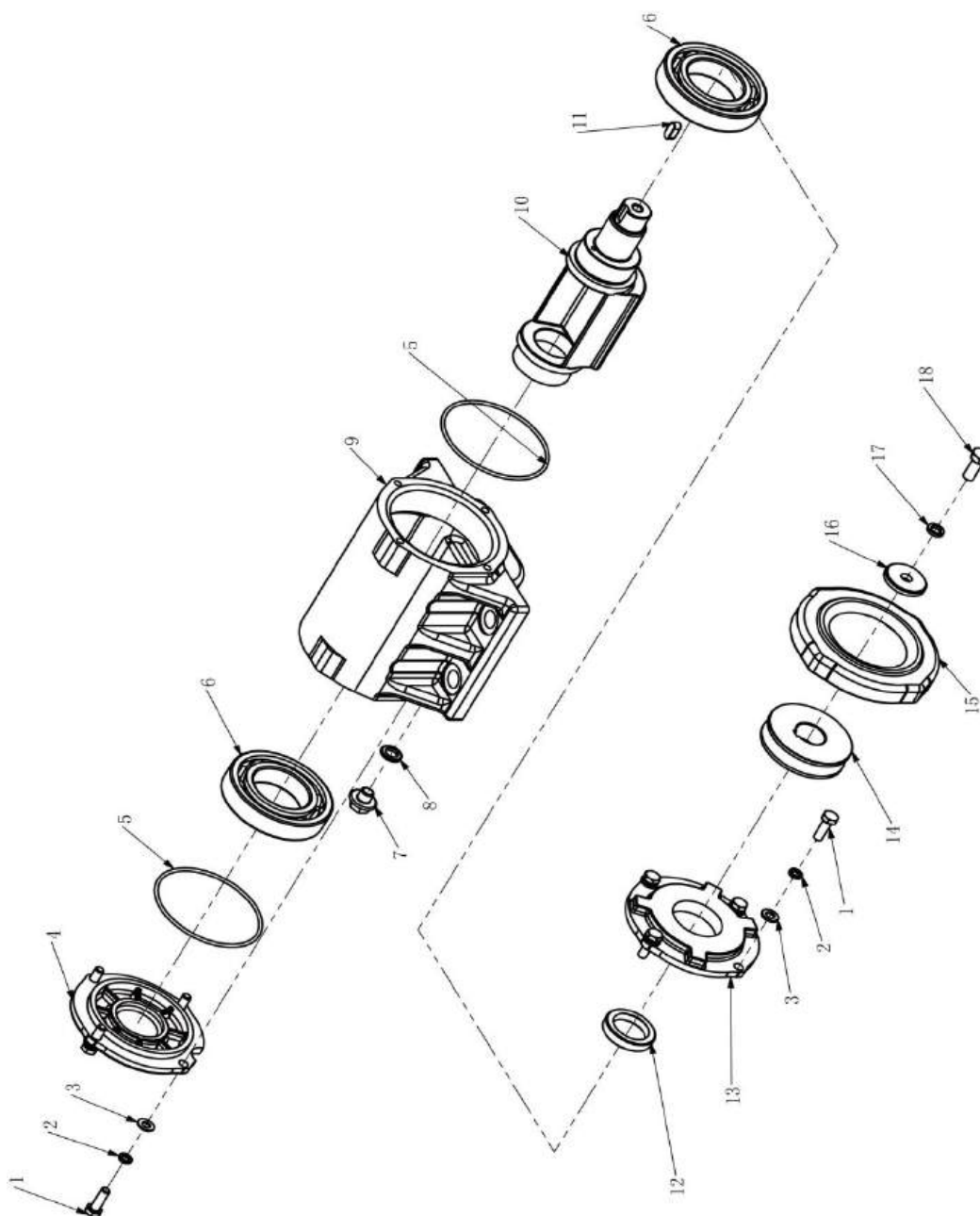
14. SPARE PARTS LIST BTPC70H



No.	Description	Drawing No.	Qty
1	Handle	2205-08000-3	1
2	Bolt M8x25	15080250	8
3	Spring Washer M8	12080000	15
4	Washer M8	11080000	13
5	Frame	2202-10000-1	1
6	Engine	25160005	1
7	Nut M8	13080000	4
8	Allen Screw M5x8	16050826	1
9	Bolt 5/16-24x1	15080300Y	1
10	Washer M8x30x3	11083003	1
11	Key	20000000	1
12	Allen Screw 5/16-24x3/4	16082004Y	2
13	Washer M8x24x3	11082403	4
14	Bolt M8x45	15080450	4
15	Washer M8x26x4	11082604	3
16	Bolt M8x20	15080200	2
17	Shock Absorber	2202-00004-4	3
18	Washer M10	11100000	11
19	Spring Washer M10	12100000	10
20	Lock Nut M10	13100001	11
21	Rubber Bushing	2202-00003-4	2
22	Bushing	2202-00001-1	2
23	Washer M12x40x3	11124003	2
24	Spring Washer M12	12120000	2
25	Bolt M12x60	15120601	2
26	Wheel Kit	2202-04000-1	1
27	Wrench	89218-ZE1-000C	1
28	Shock Absorber	2202-00002-4	4
29	Engine Base	2206-03000-3	1
30	Washer M8x22x2	11082202	1
31	Belt Cover Plate	2202-00009-2	1
32	Clutch Assy.	2302-10190-1	1
33	Belt	27AV13X836La	1
34	Belt Cover	2202-05000-4	1
35	Bolt M16x45	15160450	4

No.	Description	Drawing No.	Qty
36	Spring Washer M16	12160000	4
37	Washer M16	11160000	4
38	Viberating Case Assy.	2204-05000-1	1
39	Viberating Plate	2206-01000-3	1
40	Rubber Mat	2206-02001-1	1
41	Plate, Rubber Mat	2206-00001-2	1
42	Bolt M8x25	15080250	8
43	Spring Washer M8	12080000	8
44	Washer M8	11080000	8
45	Right Cover	2202-20006-1	1
46	O-Ring $\Phi 105 \times 3.1$	261053.1	2
47	Viberating Case	2202-20002-1	1
48	Left Cover	2202-20005-1	1
49	Dust Cover	2202-20004-4	1
50	Plug M12x1.25x10	70000019	1
51	Sealing M12	14120002	1
52	Bearing 6211	216211C3P6	2
53	Rotator	2204-05001-4	1
54	Oil Sealing TC $\Phi 48 \times \Phi 35 \times 10$	2535481002	1
55	Key 8x19	20080719A	1
56	Pulley	2202-20003-1	1
57	Washer M10x40x5	11104005	1
58	Spring Washer M10	12100000	1
59	Bolt M10x25	15100250	1
67	Bolt M6x35	15060350	2
68	Washer M6	11060000	4
69	Clip	2302-23003-4	1
70	Lock Nut M6	13060001	2
71	Frame, Wheel Kit	2202-04100-3	1
72	Washer M12	11120000	6
73	Wheel	24125302	2
74	Circlip $\Phi 12$	18120001	2
75	Shaft	2202-04001-1	1
76	Spacer	2202-04002-4	2
77	Lock Nut M12	13120001	2

15. SPARE PARTS LIST BTPC95/110Y



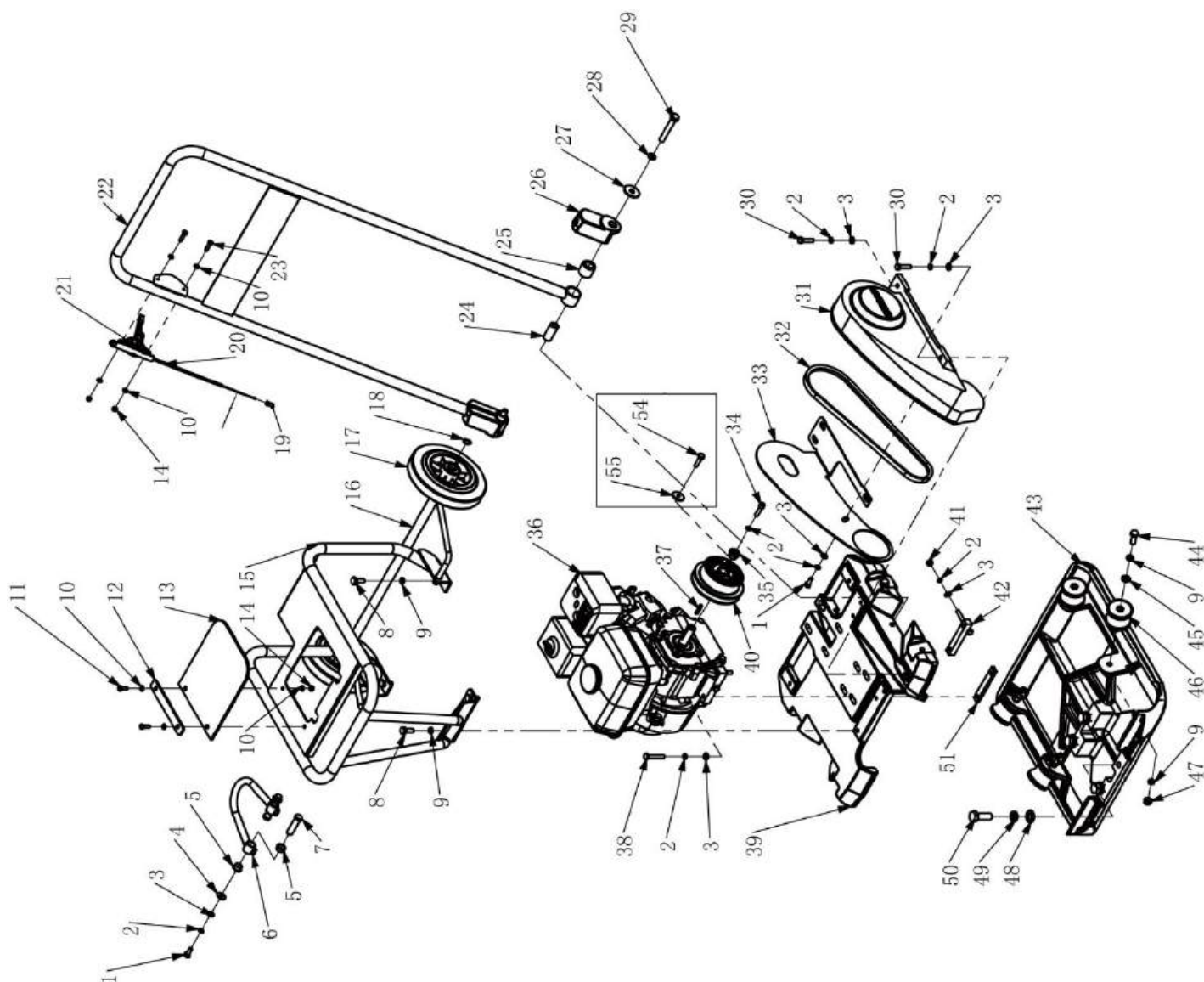
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Fax: +32 (0)52 315 359
E-mail: info@betontrowel.com
BE 0821.249.312
www.betontrowel.com

BNP FORTIS: BE81 0015 9813 5624 - GEBABEBB
ING: BE BBRUBEBB

VIBRATING CASE

No.	Description	Drawing No.	Qty
1	Bolt M8	15080250	8
2	Washer M8	12080000	8
3	Washer M8	11080000	8
4	Right Cover	2202-20006-1	1
5	O-Ring	261053.1	2
6	Bearing	216211C3P6	2
7	Plug	70000019	1
8	Sealing	14120002	1
9	Vibering Case	2202-20002-1	1
10	Rotator	2204-05001-4	1
11	Key	20080719A	1
12	Oil Sealing	2535481002	1
13	Left Cover	2202-20005-1	1
14	Pulley	2202-20003-1	1
15	Dust Cover	2202-20004-4	1
16	Washer M10	11104005	1
17	Spring Washer M10	12100000	1
18	Bolt M10	15100250	1

BODY BTPC95H

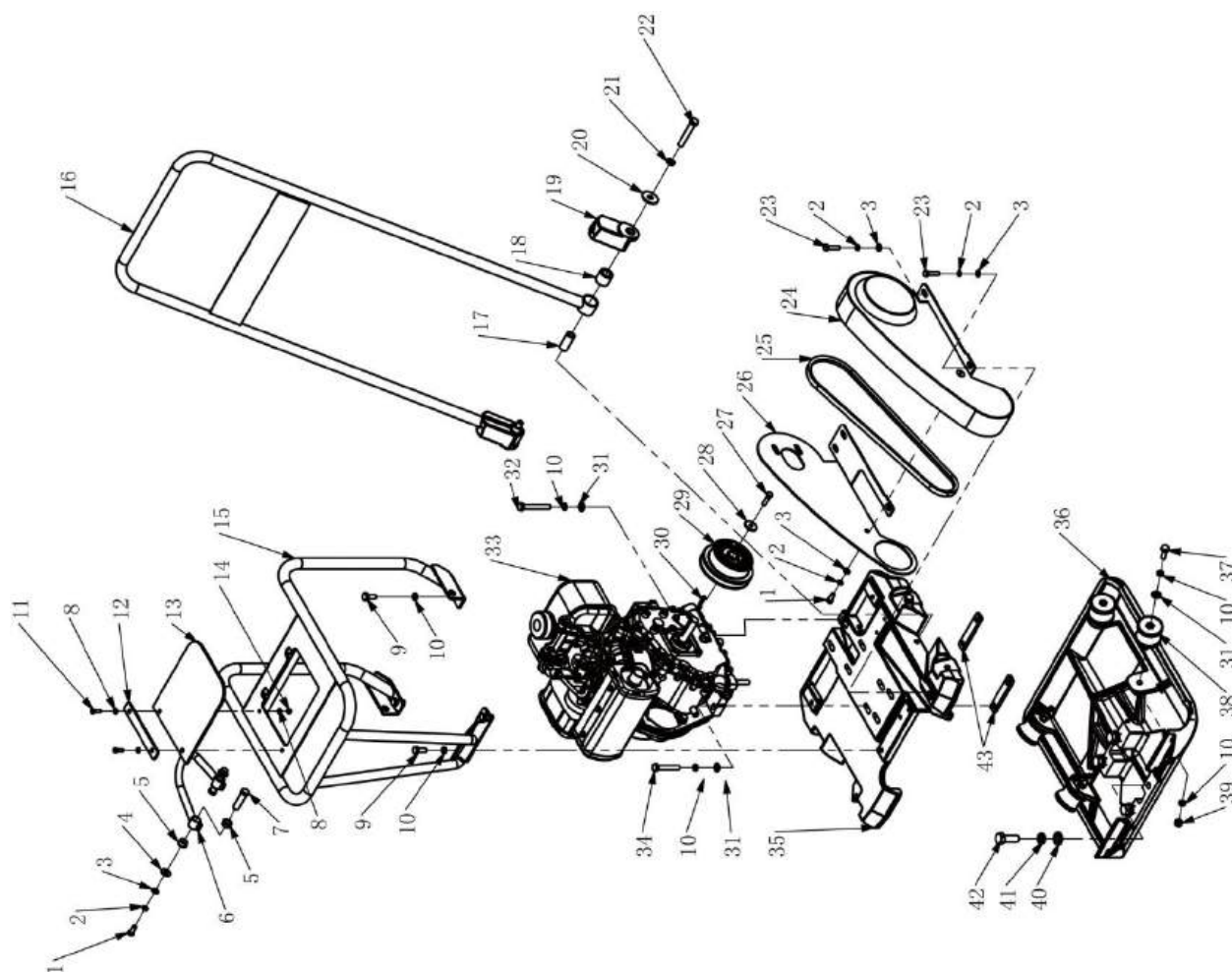


BODY BTPC95H

No.	Description	Drawing No.	Qty
1	Bolt M8	15080200	4
2	Washer M8	12080000	13
3	Washer M8	11080000	12
4	Washer M8	11082202	2
5	Bush	2302-00048-4	4
6	Hook	2302-11000-4	1
7	Pin	2302-00047-4	2
8	Bolt M10	15100250	4
9	Spring Washer M10	12100000	16
10	Washer M6	11060000	8
11	Bolt M6	15060200	2
12	Plate, Rubber Cover	2302-00024-1	1
13	Rubber Cover	2302-00029-1	1
14	Lock Nut M6	13060001	4
15	Frame	2204-03000-3	1
16	Bracket, Wheel Kits	2204-07100-3	1
17	Wheel	24200602	2
18	Circlip	18160001	2
19	Lock Nut	2204-00021-4	1
20	Trottle Lever Assy.	2204-00008-4	1
21	Trottle Lever Assy.	2302-09000-3	1
22	Handle	2204-02100-3	1
23	Bolt M6	15060250	2
24	Collar	2204-02003-1	2
25	Rubber Collar	2204-02002-4	2
26	Shock Absorber	2204-02001-4	2
27	Washer M12	11124003	2
28	Spring Washer M12	12120000	2
29	Bolt M12	15120751	2
30	Bolt M8	15080350	3
31	Belt Cover	2204-00003-1	1
32	Belt	AV13X904la	1
33	Belt Cover Plate	2204-01000-3	1
34	Allen Screw M8	16083015	1

No.	Description	Drawing No.	Qty
35	Washer	2302-00017-4	1
36	Engine	25160001	1
37	Key	12050530A	1
38	Bolt M8	15080500	4
39	Engine Base	2204-00007-4	2
40	Clutch Assy.	2302-10000-1	1
41	Lock Nut M8	13080001	1
42	Engine Nut	2204-20000-3	1
43	Viberating Plate	2204-00006-4	1
44	Bolt M10	15100300	4
45	Washer M10	11100000	8
46	Shock Absorber	2301-01000-4	4
47	Lock Nut M10	13100001	4
48	Washer M16	11160000	4
49	Spring Washer M16	12160000	4
50	Bolt M16	15160450	4
51	Engine Nut	2204-00012-1	1
54	Bolt 5/16	15080350Y	1
55	Washer M8	11083003	1

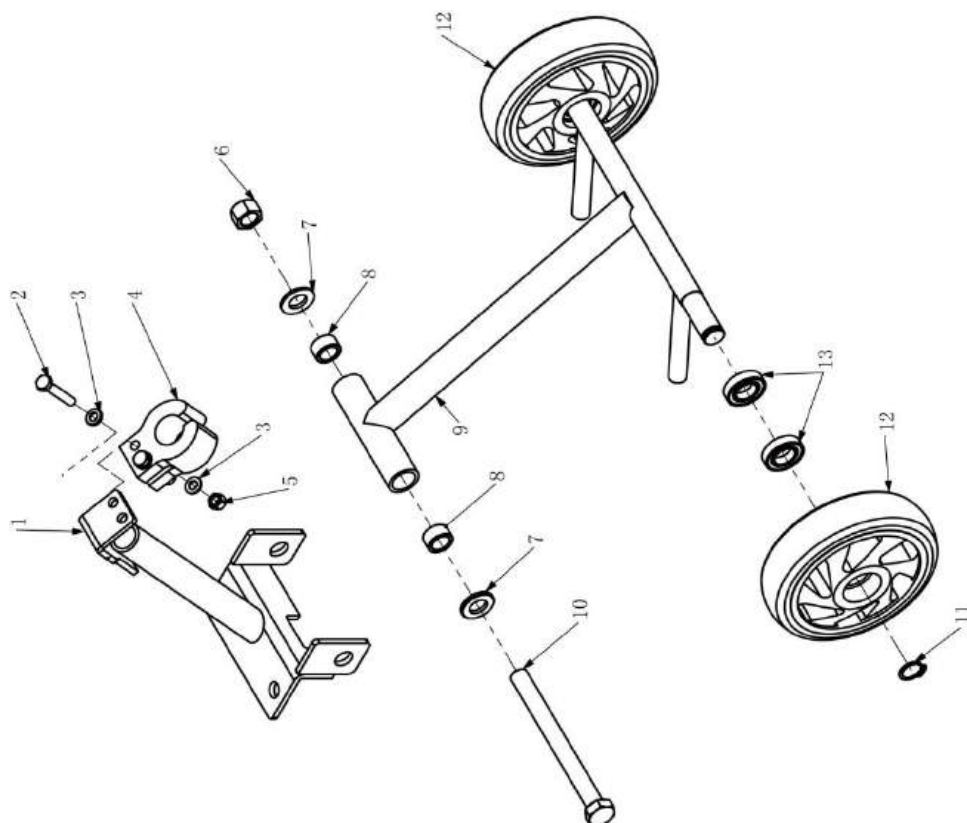
BODY BTPC110Y



BODY BTPC110Y

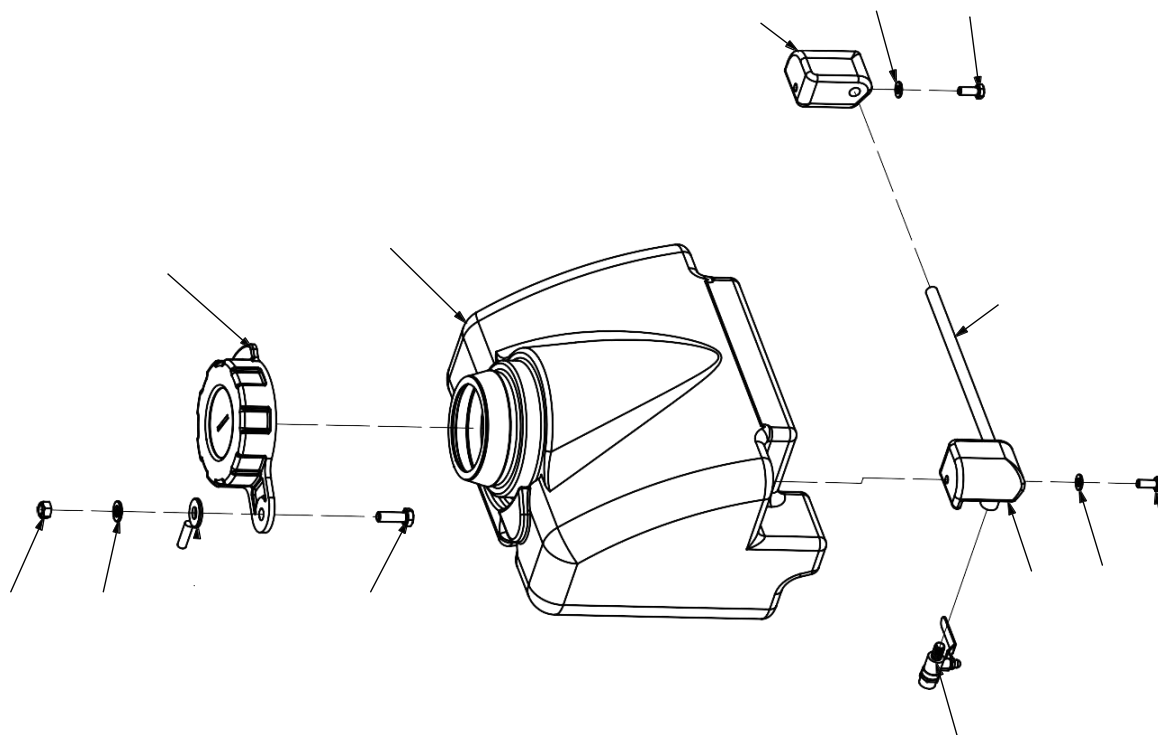
No.	Description	Drawing No.	Qty
1	Bolt M8x20	15080200	4
2	Spring Washer M8	12080000	7
3	Washer M8	11080000	7
4	Washer M8x22x2	11082202	2
5	Bushing	2302-00048-4	4
6	Hook	2302-11000-4	1
7	Pin	2302-00047-4	2
8	Washer M6	11060000	4
9	Bolt M10x25	15100250	4
10	Spring Washer M10	12100000	16
11	Bolt M6x20	15060200	2
12	Plate, Rubber Cover	2302-00024-1	1
13	Rubber Cover	2302-00029-1	1
14	Lock Nut M6	13060001	2
15	Frame	2204-04000-3	1
16	Handle Assy.	2204-02200-3	1
17	Collar	2204-02003-1	2
18	Rubber Collar	2204-02002-4	2
19	Shock Absorber	2204-02001-4	2
20	Washer M12x40x3	11124003	2
21	Spring Washer M12	12120000	2
22	Bolt M12x75	15120751	2
23	Bolt M8x35	15080350	3
24	Belt Cover	2204-13000-3	1
25	Belt	A991Li	1
26	Belt Cover Plate	2204-12000-3	1
27	Bolt 5/16-24x1-1/4	15080350Y	1
28	Washer M8x30x3	11083003	1
29	Clutch Assy.	2302-10100-1	1
30	Key 4.76x38.1	204.7638.1C	1
31	Washer M10	11100000	8
32	Bolt M10x80	15100800	2
33	Diesel Engine	25000024	1
34	Bolt M10x65	15100650	2

No.	Description	Drawing No.	Qty
35	Engine Base	2204-00007-4	1
36	Viberating Plate	2204-00006-4	1
37	Bolt M10x30	15100300	4
38	Shock Absorber	2301-01000-4	4
39	Lock Nut M10	13100001	4
40	Washer M16	11160000	4
41	Spring Washer M16	12160000	4
42	Bolt M16x45	15160450	4
43	Diesel Engine Nut	2204-00011-1	2



No.	Description	Drawing No.	Qty
1	Connector, Wheel Kits	2204-06100-3	1
2	Bolt M6	15060350	2
3	Washer M6	11060000	4
4	Clip	2302-23003-4	1
5	Lock Nut M6	13060001	2
6	Lock Nut M12	13120001	1
7	Washer M12	11120000	2
8	Spacer	2202-04002-4	2
9	Bracket, Wheel Kits	2204-06200-3	1
10	Bolt M12	15121301	1
11	Circlip	18150001	2
12	Wheel	24125382	2
13	Bearing	2161902-2Z	4

No.	Description	Drawing No.	Qty
1	Cap, Water Tank	2204-30005-4	1
2	Lock Nut M10		1
3	Washer M10		2
4	Connector, Cap	2204-29000-3	1
5	Bolt M10		1
6	Water Tank	2204-30001-4	1
7	Switch	2204-30011-4	1
8	Washer M8		2
9	Rubber Pipe Connector	2204-30008-4	1
10	Rubber Pipe Holder	2204-30010-4	1
11	Pipe	2204-30009-4	1
12	Bolt M8		2



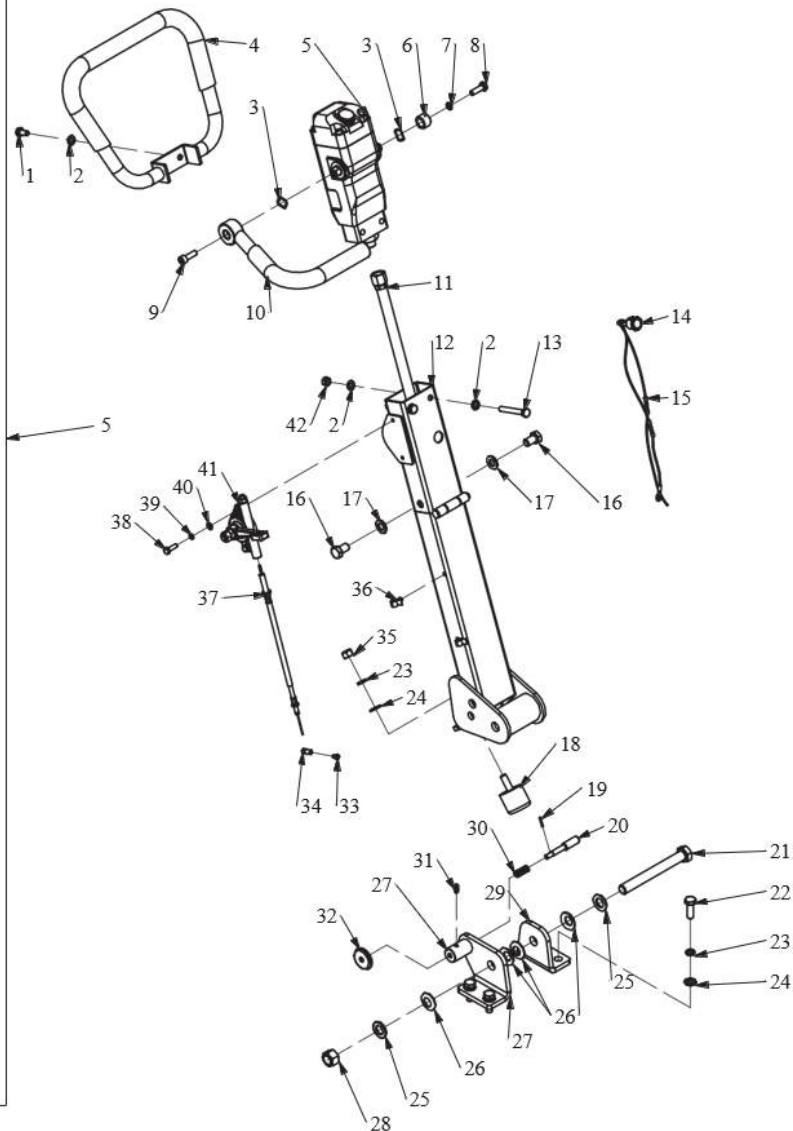
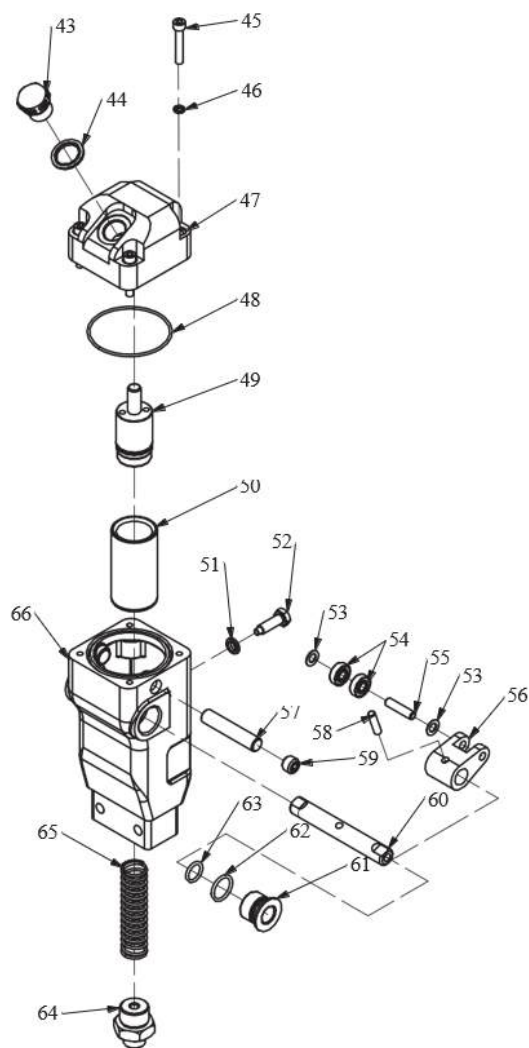
16. SPARE PARTS LIST BTPC 160

CONTROL

No.	Description	Drawing No.	Qty
1	Bolt M8	15080160	2
2	Washer M8	11080000	6
3	Wave Washer	14220005	2
4	Handle Grip	2302-04000-4	1
5	Handle Pump Assy.	2302-14000-1	1
6	Collar	2302-00032-4	1
7	Washer M8	12080000	1
8	Bolt M8	15080250	1
9	Allen Screw M8	16082503	1
10	Travel Lever	2302-07000-4	1
11	Oil Hose	2302-00050-4	1
12	Handle Assy.	2302-26000-1	1
13	Bolt M8	15080601	2
14	Switch	2302-00015-4	1
15	Wire	2301-09000-1	1
16	Bolt M12	15120200	2
17	Washer M12	11120000	2
18	Shock Absorber, Handle	2302-00001-4	1
19	Spring Pin	19021601	1
20	Pin	2302-00045-4	1
21	Bolt M16	15161401	1
22	Bolt M10	15100300	4
23	Spring Washer M10	12100000	5
24	Washer M10	11100000	5
25	Washer M16	11160000	2
26	Wave Washer	14160001	4
27	Handle Bracket (R)	2302-02000-4	1
28	Lock Nut M16	13160001	1
29	Handle Bracket (L)	2302-00021-4	1
30	Spring	2302-00041-4	1
31	Grease Inlet	70000011	1
32	Knob	2302-00010-4	1
33	Bolt M5	16050801	1

No.	Description	Drawing No.	Qty
34	Lock Nut	2204-00021-4	1
35	Lock Nut M10	13100001	1
36	Wire Clip	70000002	2
37	Trottle Wire	2302-00051-4	1
38	Bolt M6	15060200	2
39	Spring Washer M6	12060000	2
40	Washer M6	11060000	2
41	Trottle Lever Assy.	2302-09000-3	1
42	Lock Nut M8	13080001	2
43	Breather Cap	2302-14200-1	1
44	Sealing	14200002	1
45	Allen Screw M6	16063503	4
46	Spring Washer M6	12060000	4
47	Cover, Handle Pump	2302-14011-1	1
48	O-Ring	2607002	1
49	Piston CP	2302-14100-1	1
50	Bush	2302-14008-1	1
51	Spacer M8	14080002	1
52	Bolt M8	2302-14003-1	1
53	Nylon Washer	2302-00025-4	2
54	Bearing	21607-2Z	2
55	Pin	2302-14005-4	1
56	Can	2302-14009-1	1
57	Stopper	2302-14013-4	1
58	Pin	2302-14012-4	1
59	Plug	2302-14002-4	1
60	Shaft	2302-14004-1	1
61	Bush	2302-14001-1	2
62	O-Ring	260242.5	2
63	O-Ring	260192.5	2
64	Hose Joint	2302-14006-4	1
65	Spring	2302-14010-4	1
66	Body, Handle Pump	2302-14007-1	1

CONTROL

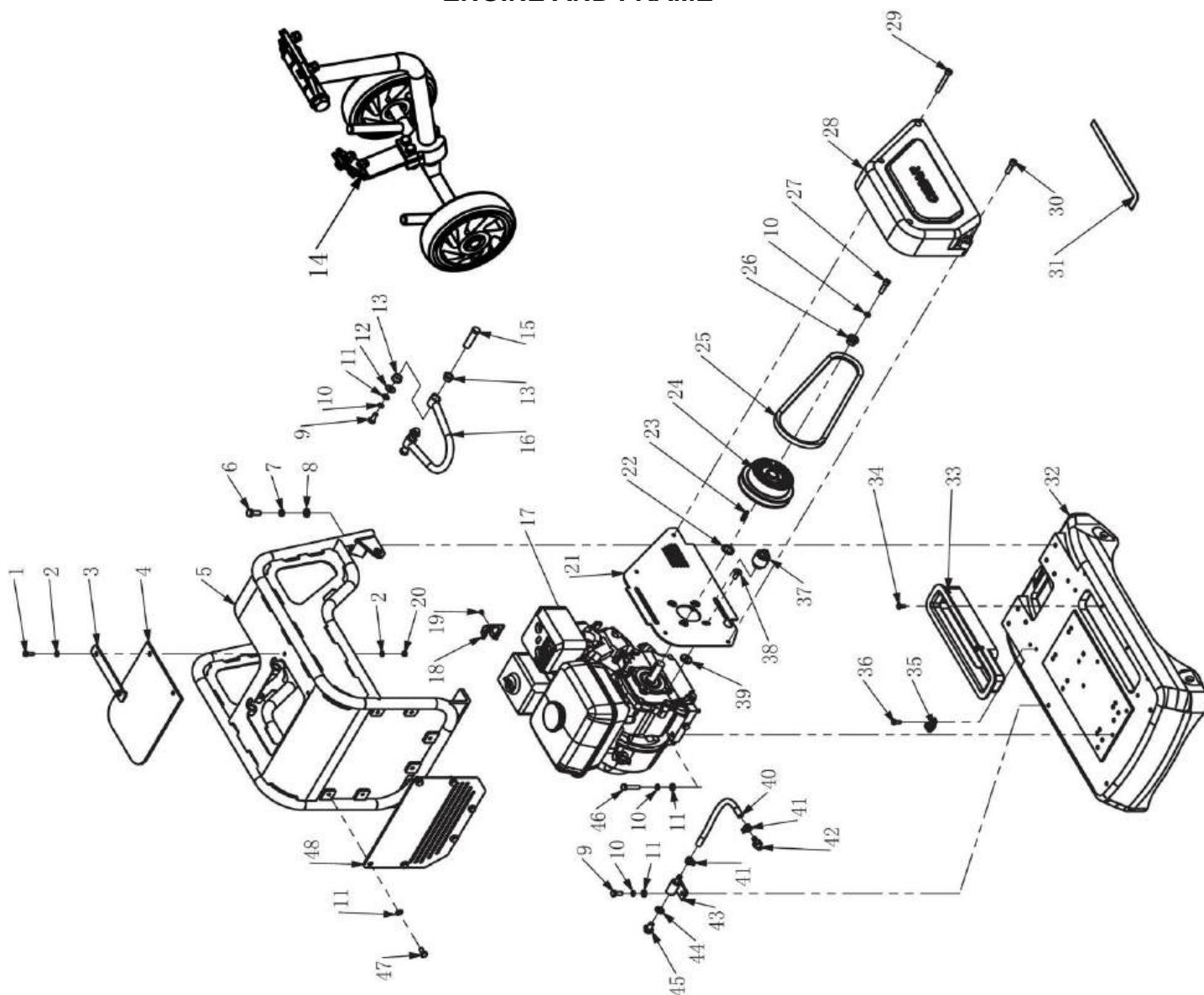


ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Bolt M6	15060200	2
2	Washer M6	11060000	4
3	Plate, Rubber Cover	2302-00024-1	1
4	Rubber Cover	2302-00029-1	1
5	Frame	2302-08000-3	1
6	Bolt M10	15100250	4
7	Spring Washer M10	12100000	4
8	Washer M10	11100000	4
9	Bolt M8	15080200	3
10	Washer M8	12080000	8
11	Washer M8	11080000	13
12	Washer M8	11082202	2
13	Bush	2302-00048-4	4
14	Wheel Kits	2302-23000-1	1
15	Pin	2302-00047-4	2
16	Hook	2302-11000-4	1
17	Engine	25200002	1
18	Exhaust Outlet	18340-ZE1-010C	1
19	Bolt M4	16040601	2
20	Lock Nut M6	13060001	2
21	Belt Cover Plate	2302-18000-3	1
22	Spacer	70000048	1
23	Key	12050530A	1
24	Clutch Assy.	2302-10000-1	1
25	Belt	27AV13X867LG	1
26	Washer	2302-00017-4	1
27	Allen Screw M8	16083015	1
28	Belt Cover Out	2302-18003-1	1
29	Allen Screw M8	16086013	3
30	Allen Screw M8	16083003	1
31	Sponge Sealing	2302-00064-4	1
32	Engine Base	2302-00013-4	1
33	Dust Cover	2302-00008-4	1
34	Allen Screw M6	16061604	2

No.	Description	Drawing No.	Qty
35	R Clamp	70000001	1
36	Bolt M6	15060160	1
37	Belt Tesioner	2302-21000-1	1
38	Allen Screw M8	16082004	4
39	Washer M8	11082604	4
40	Drain Hose	2302-00049-4	1
41	Clamp	70000003	2
42	Hose Joint	2302-00014-1	1
43	Plug	2302-06000-3	1
44	Washer M10	70000004	1
45	Plug	70101016	1
46	Bolt M8	15080400	4
47	Bolt M8	15080160	6
48	Front Cover	2302-00012-2	1

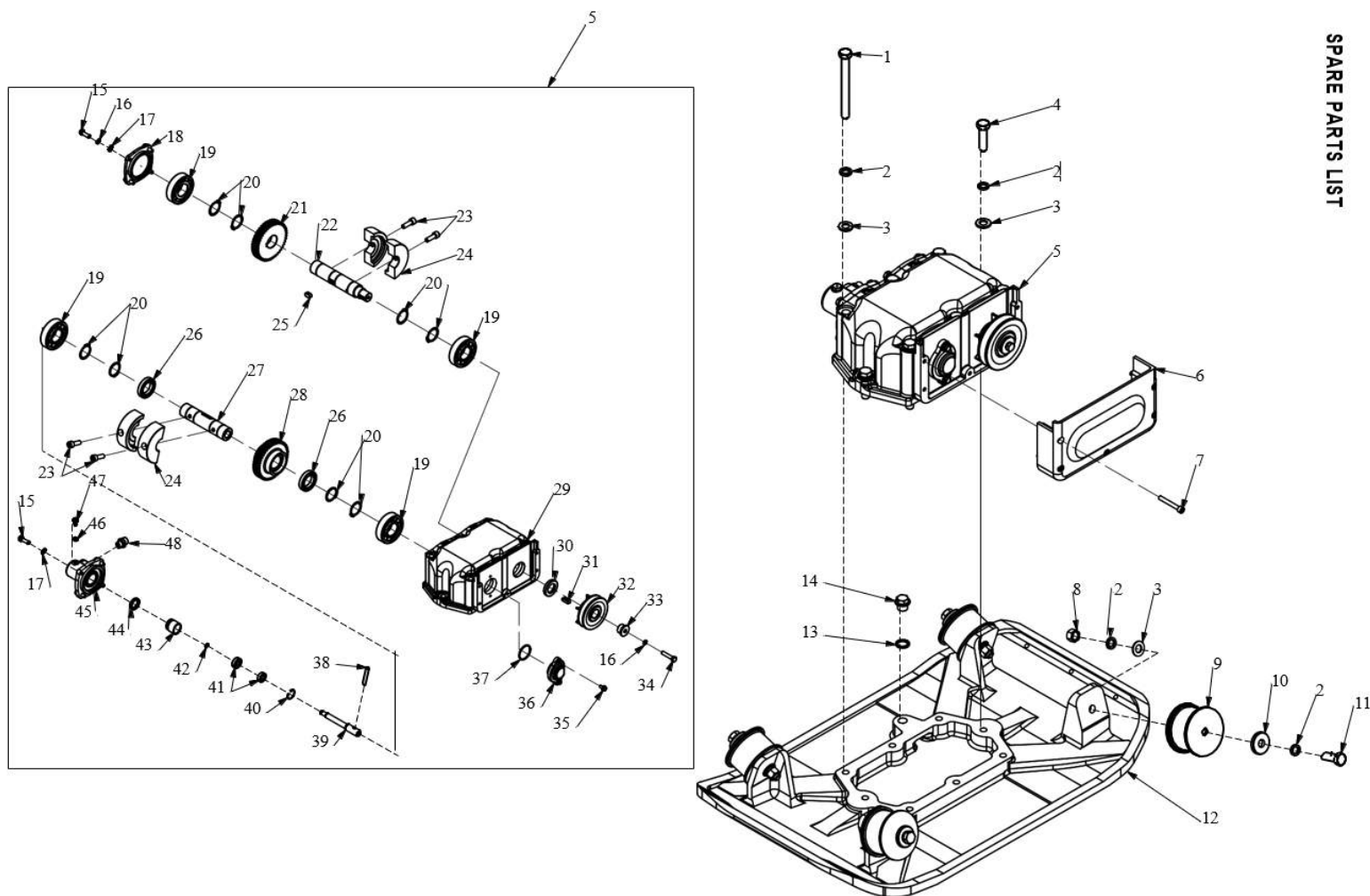
ENGINE AND FRAME



VIBRATOR AND PLATE

No.	Description	Drawing No.	Qty
1	Bolt M12	15121201	6
2	Spring Washer M12	12120000	16
3	Washer M12	11120000	12
4	Bolt M12	15120450	2
5	Vibrator Assy.	2302-13000-1	1
6	Belt Cover Lower	2302-13017-1	1
7	Allen Screw M6	16064503	5
8	Lock Nut M12	13120001	4
9	Shock Absorber	2302-00004-4	4
10	Washer M12	11123505	4
11	Bolt M12	15120350	4
12	Vibrating Plate	2302-00002-4	1
13	Sealing	14160002	1
14	Plug	70161512	1
15	Bolt M8	15080250	8
16	Washer M8	12080000	9
17	Washer M8	11080000	8
18	Bearing Cover	2302-13014-1	1
19	Bearing	21NJ307EM1	4
20	Stopper	18350001	8
21	Gear, Drive	2302-13012-4	1
22	Rotary Shaft, Drive	2302-13013-4	1
23	Allen Screw M10	16103011	4
24	Eccentric Rotator	2302-13011-4	4
25	Key	20100818A	1
26	Bearing	2161907-2Z	2
27	Shaft, Driven	2302-13002-4	1
28	Gear, Driven	2302-13001-4	1
29	Vibrating Case	2302-13010-1	1
30	Oil Sealing	2528450802	1
31	Key	20080725A	1
32	Pulley	2302-13015-4	1
33	Spacer	2302-13016-4	1
34	Bolt M8	15080400	1

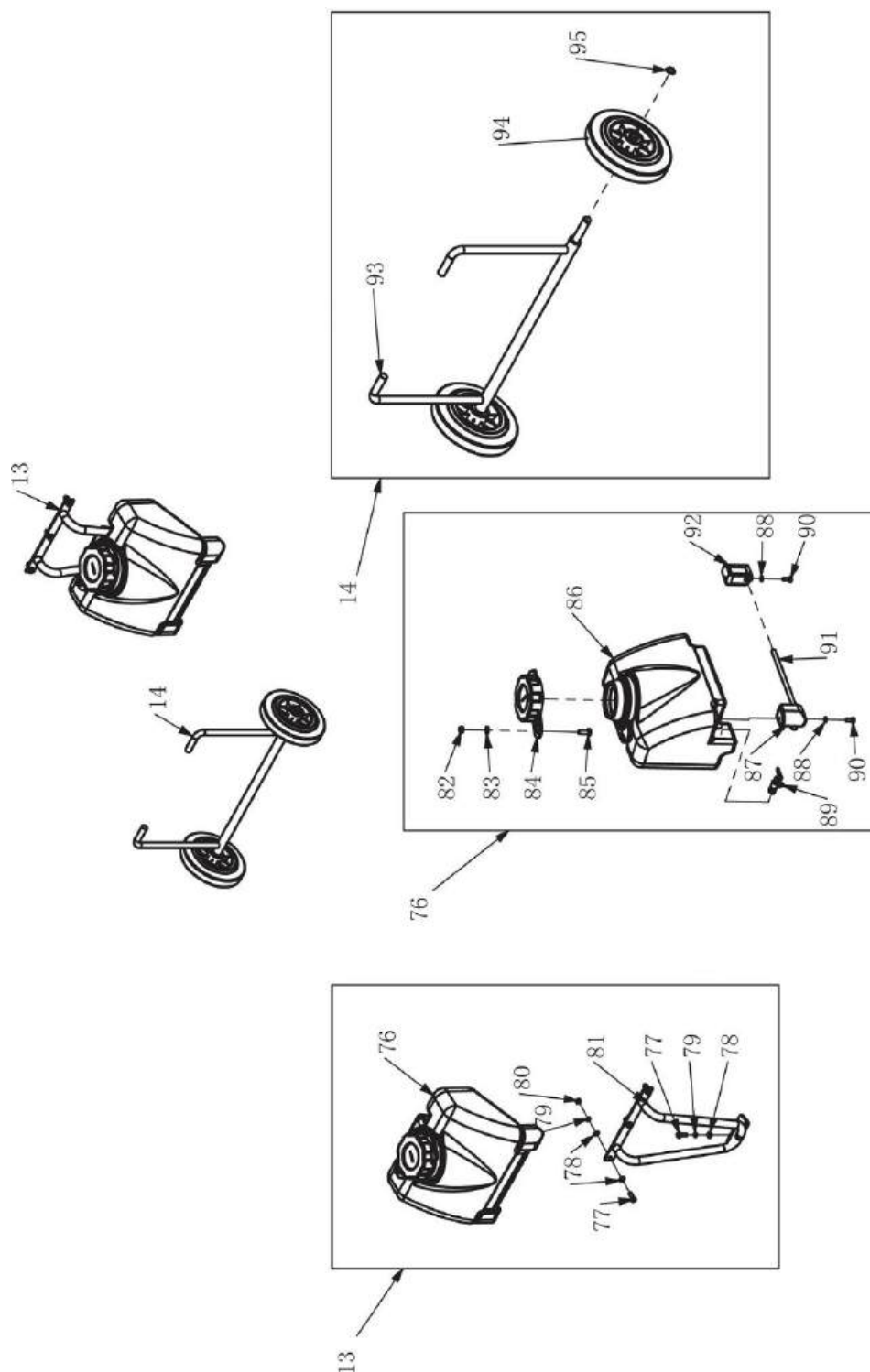
No.	Description	Drawing No.	Qty
36	Sealing Cap	2302-13009-1	1
37	O-Ring	260433.1	1
38	Pin	2302-13008-4	1
39	Piston Rod	2302-13007-4	1
40	Stopper	18260002	1
41	Bearing	216000-2Z	2
42	Spring Washer M10	18100004	1
43	Piston	2302-13005-1	1
44	Oil Sealing	2222.43005	1
45	Cylinder	2302-13003-1	1
46	Spacer M8	14080002	1
47	Blot M8	2302-13004-1	1
48	Joint	2302-13006-4	1



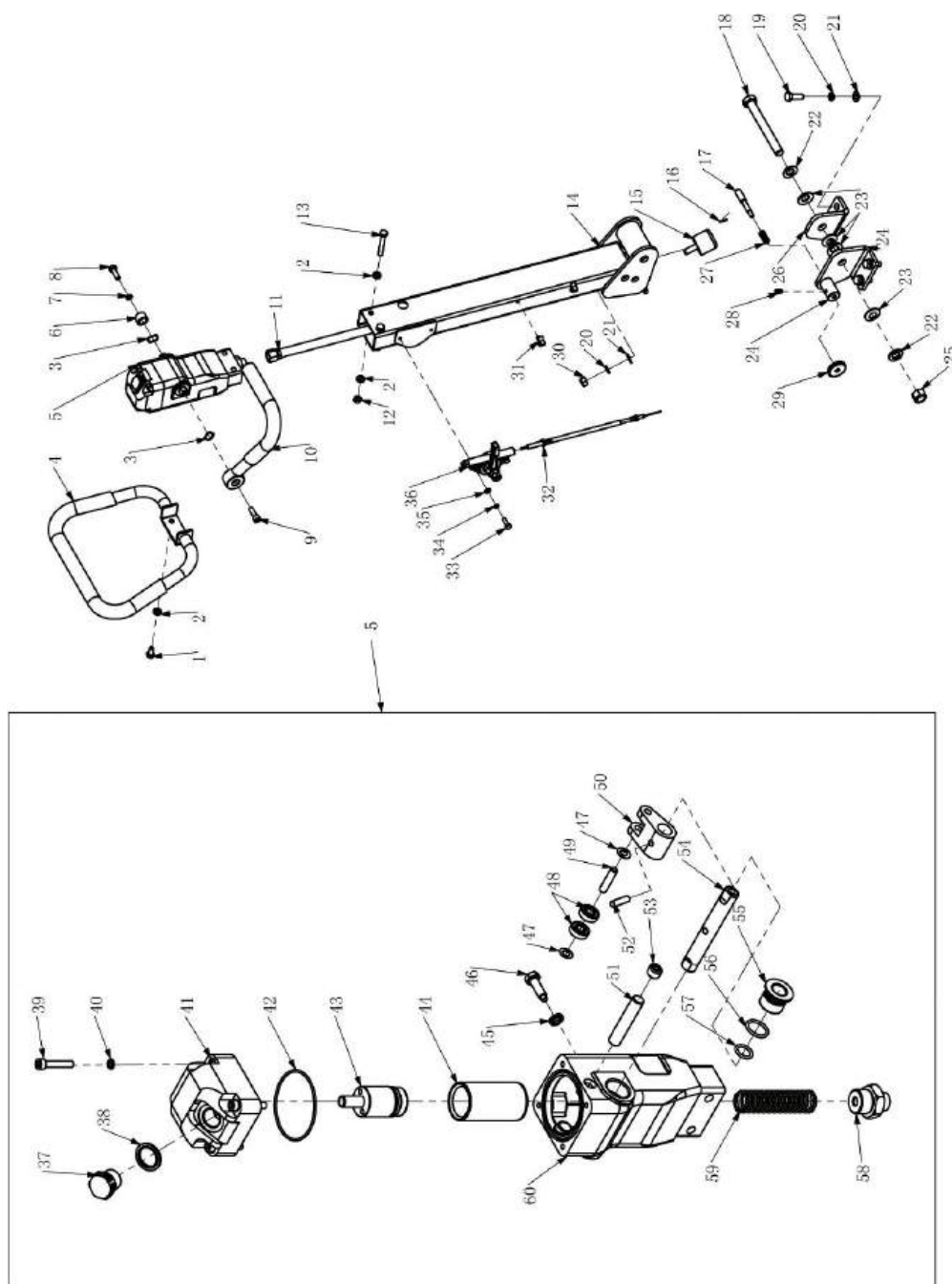
SPARE PARTS LIST

OPTIONAL

No.	Description	Drawing No.	Qty
13	Water Tank Kits	2302-25000-1	1
14	Wheel Kit	2302-22000-1	1
15	Belt Tesioner	2302-21000-1	1
76	Water Tank Assy.	2204-30000-4	1
77	Bolt M8	15080250	4
78	Washer M8	11080000	7
79	Washer M8	12080000	4
80	Lock Nut M8	13080001	3
81	Bracket, Water Tank	2302-25100-1	1
82	Lock Nut M10		1
83	Washer M10		2
84	Cap, Water Tank	2204-30005-4	1
85	Bolt M10		1
86	Water Tank	2204-30001-4	1
87	Rubber Pipe Connector	2204-30008-4	1
88	Washer M8		2
89	Switch	2204-30011-4	1
90	Bolt M8		2
91	Pipe	2204-30009-4	1
92	Rubber Pipe Holder	2204-30010-4	1
93	Bracket	2302-22100-3	1
94	Wheel	24200602	2
95	Stopper	18160001	2
93	Bracket	2302-22100-3	1
94	Wheel	24200602	2
95	Stopper	18160001	2



17. SPARE PARTS LIST BTPC 160Y CONTROL



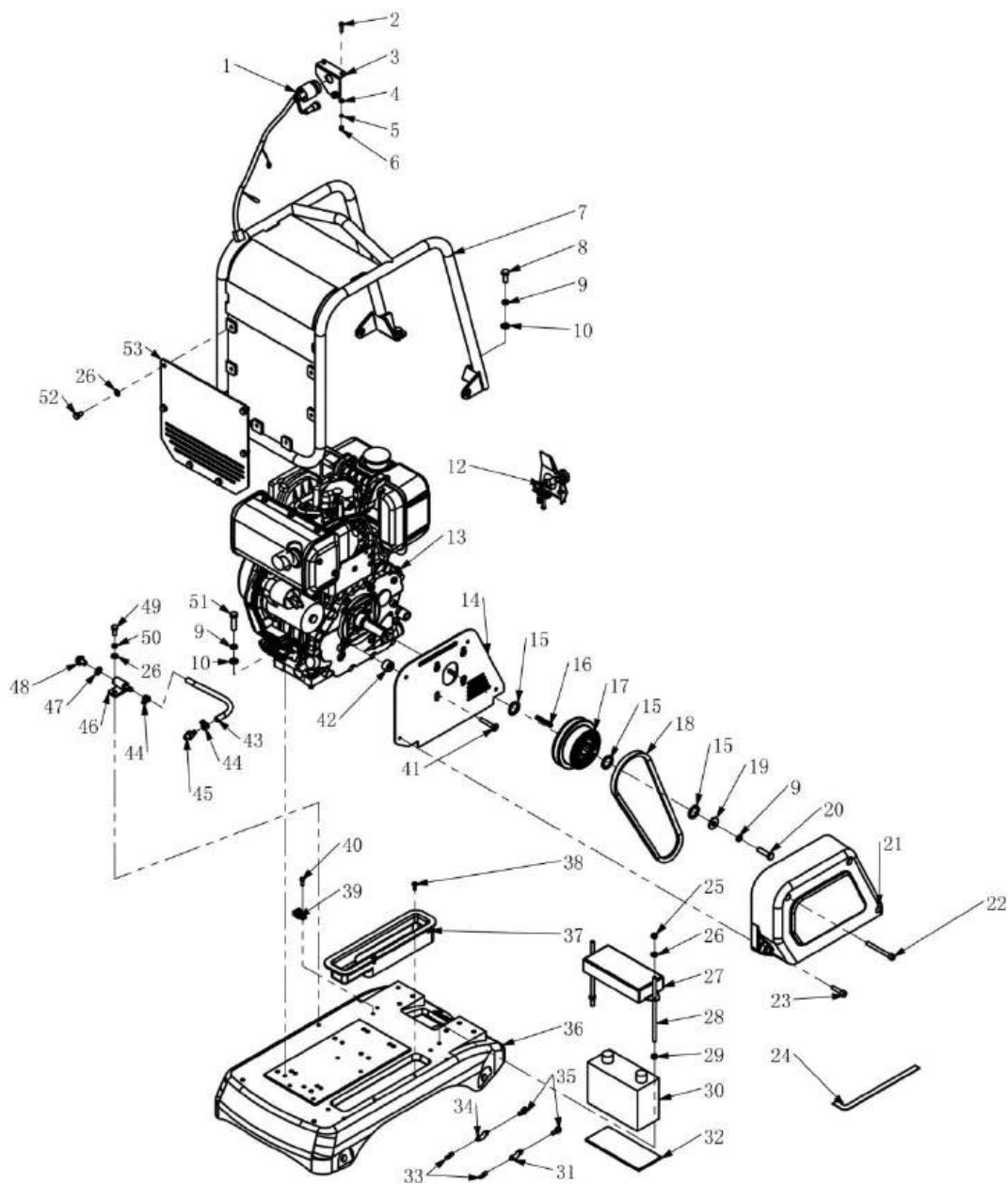
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CONTROL

No.	Description	Drawing No.	Qty
1	Bolt M8x16	15080160	2
2	Washer M8	11080000	6
3	Wave Washer $\Phi 22 \times \Phi 16 \times 0.3$	14220005	2
4	Handle Grip	2302-04000-4	1
5	Handle Pump Assy.	2302-14000-1	1
6	Collar	2302-00032-4	1
7	Spring Washer M8	12080000	1
8	Bolt M8x25	15080250	1
9	Allen Screw M8x25	16082503	1
10	Travel Lever	2302-07000-4	1
11	Oil Hose	2302-00050-4	1
12	Lock Nut M8	13080001	2
13	Bolt M8x60	15080601	2
14	Handle	2302-03000-4	1
15	Shock Absorber, Handle	2302-00001-4	1
16	Spring Pin $\Phi 2 \times 16$	19021601	1
17	Pin	2302-00045-4	1
18	Bolt M16x140	15161401	1
19	Bolt M10x30	15100300	4
20	Spring Washer M10	12100000	5
21	Washer M10	11100000	5
22	Washer M16	11160000	2
23	Wave Washer M16x32x2/1.5	14160001	4
24	Handle Bracket (R)	2302-02000-4	1
25	Lock Nut M16	13160001	1
26	Handle Bracket (L)	2302-00021-4	1
27	Spring	2302-00041-4	1
28	Grease Fitting M6	70000011	1
29	Knob	2302-00010-4	1
30	Lock Nut M10	13100001	1
31	Wire Clip $\Phi 9$	70000002	2
32	Trottle Wire	2302-00051-4	1
33	Bolt M6x20	15060200	2
34	Spring Washer M6	12060000	2

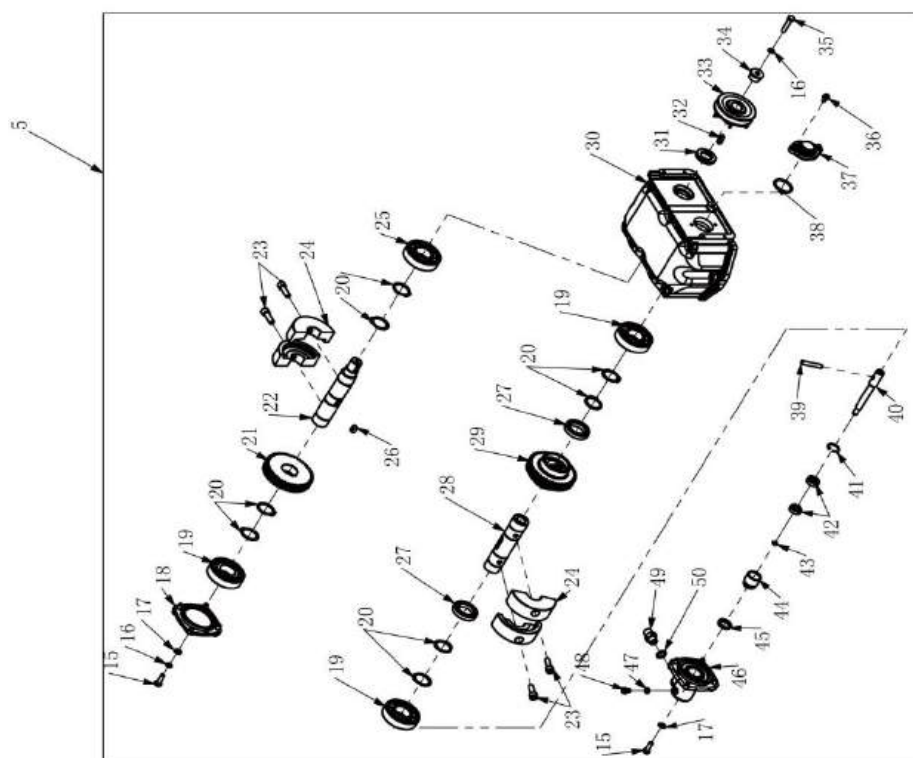
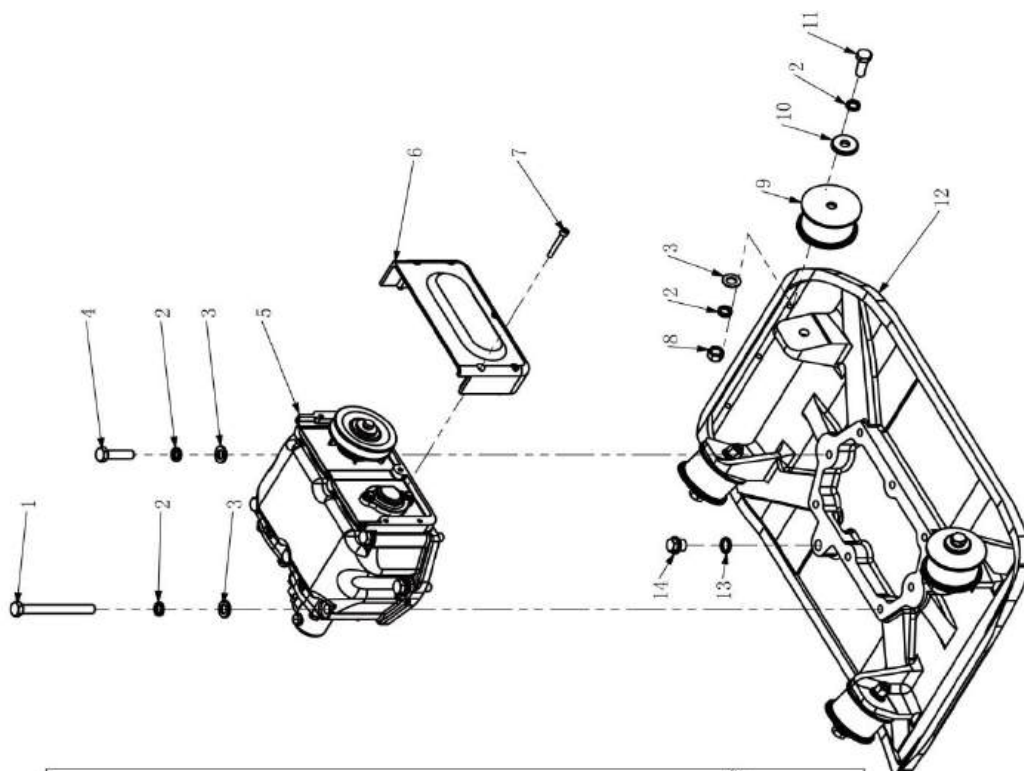
No.	Description	Drawing No.	Qty
35	Washer M6	11060000	2
36	Trottle Lever Assy.	2302-09000-3	1
37	Breather Cap	2302-14200-1	1
38	Sealing M20	14200002	1
39	Allen Screw M6x35	16063503	4
40	Spring Washer M6	12060000	4
41	Cover, Handle Pump	2302-14011-1	1
42	O-Ring $\Phi 70 \times 2$	2607002	1
43	Piston CP	2302-14100-1	1
44	Bushing	2302-14008-1	1
45	Sealing M8	14080002	1
46	Bolt M8x30	2302-14003-1	1
47	Nylon Washer 14x7.75x0.8	2302-00025-4	2
48	Bearing 607	21607-2Z	2
49	Pin 7x30	2302-14005-4	1
50	Travel Lever	2302-14009-1	1
51	Stopper	2302-14013-4	1
52	Pin 6x24	2302-14012-4	1
53	Plug R1/4x10	2302-14002-4	1
54	Shaft	2302-14004-1	1
55	Bushing	2302-14001-1	2
56	O-Ring $\Phi 24 \times 2.5$	260242.5	2
57	O-Ring $\Phi 19 \times 2.5$	260192.5	2
58	Hose Joint	2302-14006-4	1



ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Electric Start Switch		1
2	Bolt M6x20	15060200	2
3	Switch Panel		1
4	Washer M6	11060000	2
5	Spring Washer M6	12060000	2
6	Lock Nut M6	13060001	2
7	Frame	2302-15000-3	1
8	Bolt M10x25	15100250	4
9	Spring Washer M10	12100000	9
10	Washer M10	11100000	8
12	Trottle Lever, Engine	70000040	1
13	Engine	25000014	1
14	Belt Cover Plate	2303-18000-3	1
15	Washer	70000049	3
16	Key 6.35x50	206.3550C	1
17	Clutch Assy.	2302-10260-1	1
18	Belt	27AV13X904La	1
19	Washer M10x30x3	11103003	1
20	Bolt 7/16-20x1-1/2	15100400Y	1
21	Belt Cover	2303-00005-1	1
22	Allen Screw M8x80	16088017	3
23	Allen Screw M8x35	16083503	1
24	Sponge Sealing	2302-00064-4	1
25	Lock Nut M8	13080001	2
26	Washer M8	11080000	9
27	Battery Top Cover	2302-24100-3	1
28	Bracket	2302-24002-1	2
29	Nut M8	13080000	2
30	Battery	2302-24001-4	1
31	Wire -	2302-00067-1	1
32	Battery Rubber Pad	2301-00065-1	1
33	Connector 8-5	Y56-11	2
34	Wire +	2302-00066-1	1
35	Connector 8-8	Y56-10	2

No.	Description	Drawing No.	Qty
36	Engine Base	2302-00013-4	1
37	Dust Cover	1602-00026-4	1
38	Allen Screw M6x16	16061604	2
39	R Clamp Ø9	70000001	1
40	Bolt M6x16	15060160	1
41	Allen Screw M8x50	16085018	4
42	Bushing	2302-00006-1	4
43	Drain Hose	2302-00049-4	1
44	Clamp Ø12	70000003	2
45	Hose Joint	2302-00014-1	1
46	Plug	2302-06000-3	1
47	Washer M10x1	70000004	1
48	Plug M10x1x16	70101016	1
49	Bolt M8x20	15080200	1
50	Spring Washer M8	12080000	1
51	Bolt M10x40	15100400	4
52	Bolt M8x16	15080160	6
53	Front Cover	2302-00012-2	1

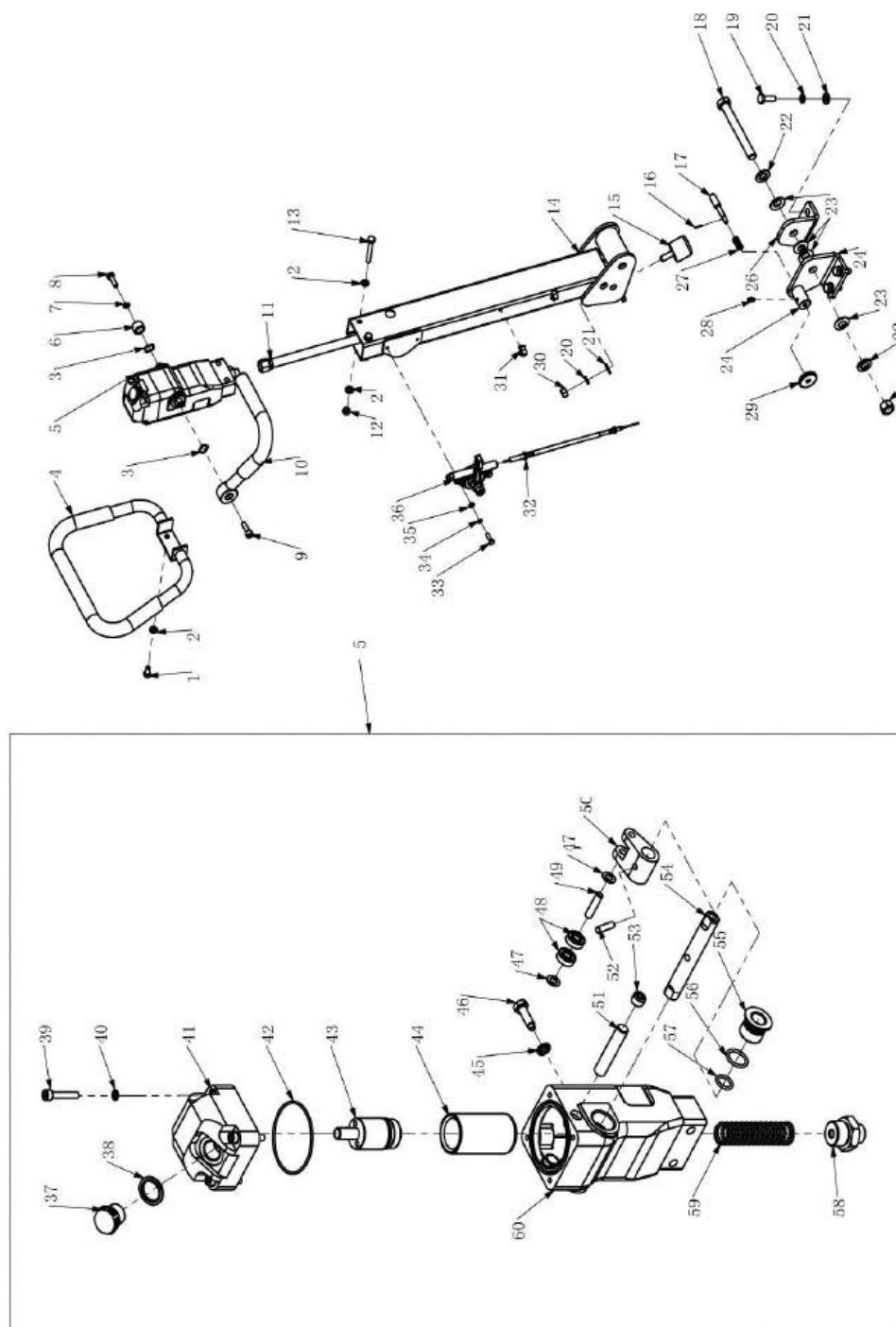


VIBRATOR AND PLATE

No.	Description	Drawing No.	Qty
1	Bolt M12x120	15121201	6
2	Spring Washer M12	12120000	16
3	Washer M12	11120000	12
4	Bolt M12x45	15120450	2
5	Vibrator Assy.	2302-13000-1	1
6	Belt Cover Lower	2302-13017-1	1
7	Allen Screw M6x45	16064503	5
8	Lock Nut M12	13120001	4
9	Shock Absorber	1602-00001-4	4
10	Washer M12x35x5	11123505	4
11	Bolt M12x35	15120350	4
12	Vibrating Plate	2302-00002-4	1
13	Sealing M16	14160002	1
14	Plug M16x1.5x12	70161512	1
15	Bolt M8x25	15080250	8
16	Spring Washer M8	12080000	9
17	Washer M8	11080000	8
18	Bearing Cover	2302-13014-1	1
19	Bearing NJ307	21NJ307EM1C4	3
20	Circlip $\Phi 35$	18350001	8
21	Gear, Drive	2302-13012-4	1
22	Rotary Shaft, Drive	2302-13013-4	1
23	Allen Screw M10x1.25x30	16103011	4
24	Eccentric Rotator	2302-13011-4	4
25	Bearing NJ307	21NJ307EM1	1
26	Key 10x18.5	20100818A	1
27	Bearing 61907	2161907-2Z	2
28	Shaft, Driven	2302-13002-4	1
29	Gear, Driven	2302-13001-4	1
30	Vibrating Case	2302-13010-1	1
31	Oil Sealing TC $\Phi 45 \times \Phi 28 \times 8$	2528450802	1
32	Key 8x25	20080725A	1
33	Pulley	2302-13015-4	1
34	Spacer	2302-13016-4	1

No.	Description	Drawing No.	Qty
35	Bolt M8x40	15080400	1
36	Bolt M6x12	15060122	2
37	Sealing Cap	2302-13009-1	1
38	O-Ring $\Phi 43 \times 3.1$	260433.1	1
39	Pin	2302-13008-4	1
40	Piston Rod	2302-13007-4	1
41	Circlip $\Phi 26$	18260002	1
42	Bearing 6000	216000-2Z	2
43	Circlip $\Phi 10$	18100004	1
44	Piston	2302-13005-1	1
45	Oil Sealing USH $\Phi 22.4 \times \Phi 30 \times 5$	2222.43005	1
46	Cylinder	1602-13004-1	1
47	Sealing M8	14080002	1
48	Bolt M8x12	2302-13004-1	1
49	Joint	1602-00005-4	1
50	Sealing M16	14160002	1

18. SPARE PARTS LIST BTPC240



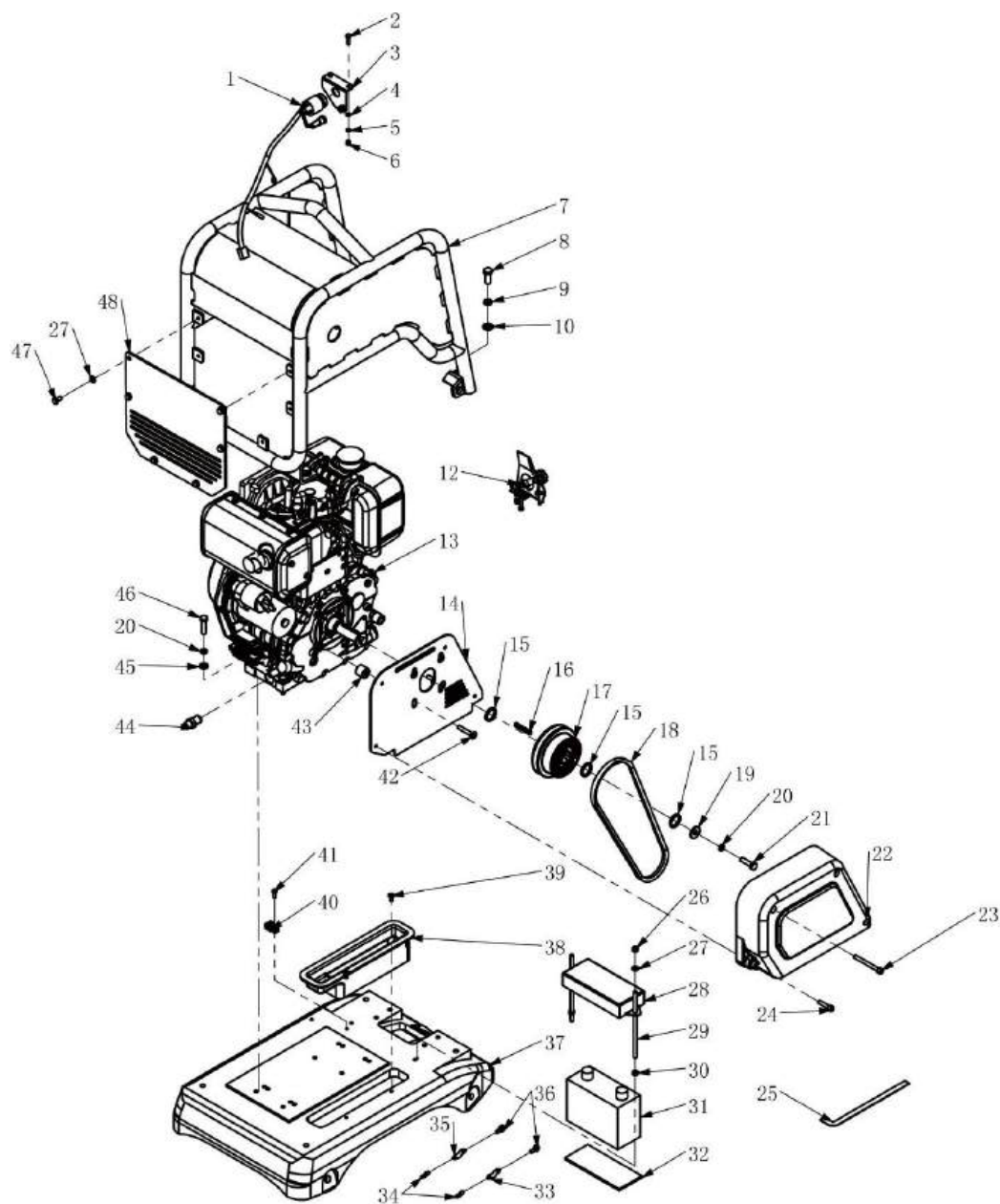
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CONTROL

No.	Description	Drawing No.	Qty
1	Bolt M8x16	15080160	2
2	Washer M8	11080000	6
3	Wave Washer $\Phi 22 \times \Phi 16 \times 0.3$	14220005	2
4	Handle Grip	2302-04000-4	1
5	Handle Pump Assy.	2302-14000-1	1
6	Collar	2302-00032-4	1
7	Spring Washer M8	12080000	1
8	Bolt M8x25	15080250	1
9	Allen Screw M8x25	16082503	1
10	Travel Lever	2302-07000-4	1
11	Oil Hose	2302-00050-4	1
12	Lock Nut M8	13080001	2
13	Bolt M8x60	15080601	2
14	Handle	2302-03000-4	1
15	Shock Absorber, Handle	2302-00001-4	1
16	Spring Pin $\Phi 2 \times 16$	19021601	1
17	Pin	2302-00045-4	1
18	Bolt M16x140	15161401	1
19	Bolt M10x30	15100300	4
20	Spring Washer M10	12100000	5
21	Washer M10	11100000	5
22	Washer M16	11160000	2
23	Wave Washer M16x32x2/1.5	14160001	4
24	Handle Bracket (R)	2302-02000-4	1
25	Lock Nut M16	13160001	1
26	Handle Bracket (L)	2302-00021-4	1
27	Spring	2302-00041-4	1
28	Grease Fitting M6	70000011	1
29	Knob	2302-00010-4	1
30	Lock Nut M10	13100001	1
31	Wire Clip $\Phi 9$	70000002	2
32	Trottle Wire	2302-00051-4	1
33	Bolt M6x20	15060200	2
34	Spring Washer M6	12060000	2

No.	Description	Drawing No.	Qty
35	Washer M6	11060000	2
36	Trottle Lever Assy.	2302-09000-3	1
37	Breather Cap	2302-14200-1	1
38	Sealing M20	14200002	1
39	Allen Screw M6x35	16063503	4
40	Spring Washer M6	12060000	4
41	Cover, Handle Pump	2302-14011-1	1
42	O-Ring $\Phi 70 \times 2$	2607002	1
43	Piston CP	2302-14100-1	1
44	Bushing	2302-14008-1	1
45	Sealing M8	14080002	1
46	Bolt M8x30	2302-14003-1	1
47	Nylon Washer 14x7.75x0.8	2302-00025-4	2
48	Bearing 607	21607-2Z	2
49	Pin 7x30	2302-14005-4	1
50	Travel Lever	2302-14009-1	1
51	Stopper	2302-14013-4	1
52	Pin 6x24	2302-14012-4	1
53	Plug R1/4x10	2302-14002-4	1
54	Shaft	2302-14004-1	1
55	Bushing	2302-14001-1	2
56	O-Ring $\Phi 24 \times 2.5$	260242.5	2
57	O-Ring $\Phi 19 \times 2.5$	260192.5	2
58	Hose Joint	2302-14006-4	1

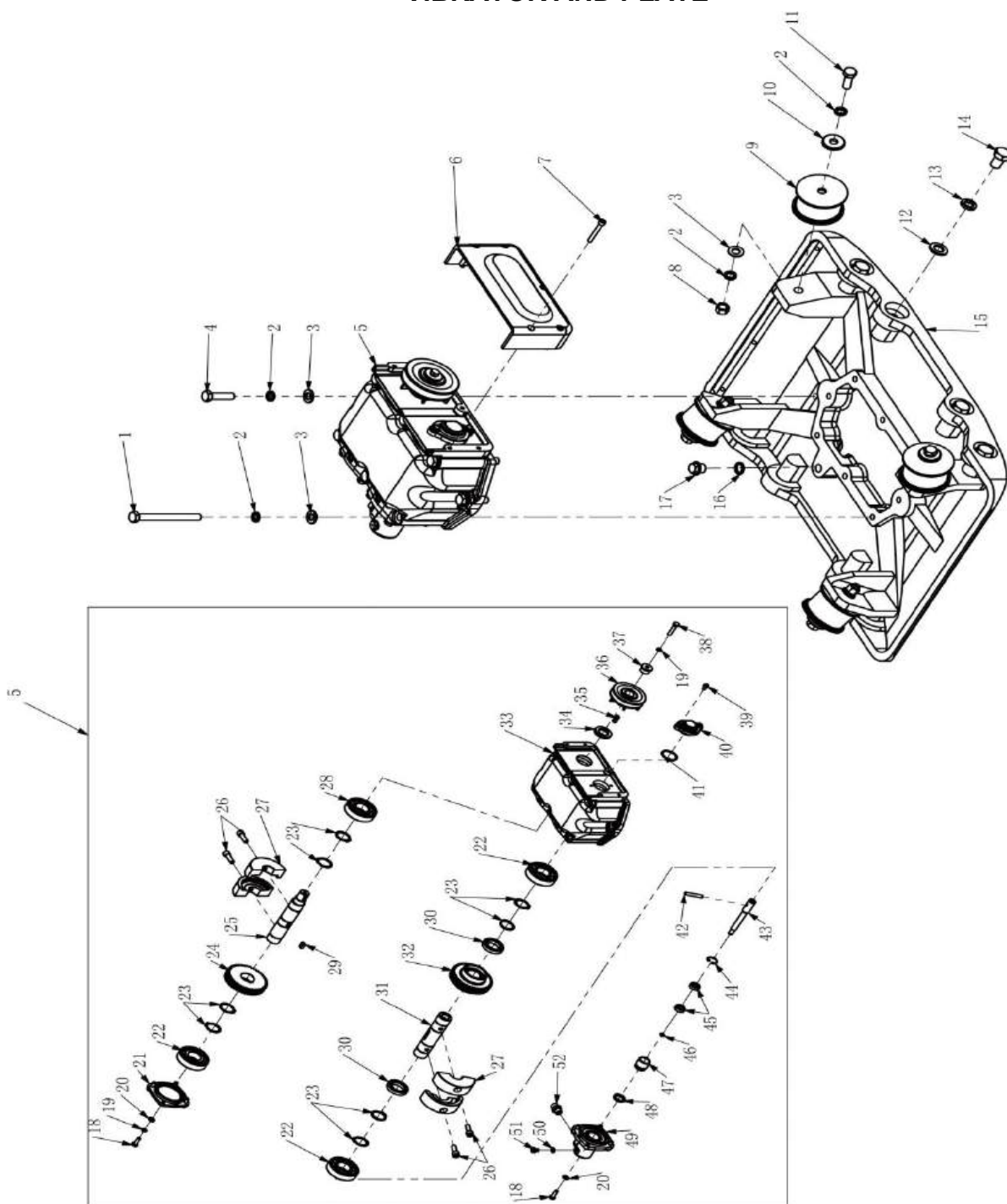


ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Electric Start Switch		1
2	Bolt M6x20	15060200	2
3	Switch Panel		1
4	Washer M6	11060000	2
5	Spring Washer M6	12060000	2
6	Lock Nut M6	13060001	2
7	Frame	2303-03000-3	1
8	Bolt M12x30	15120300	4
9	Spring Washer M12	12120000	4
10	Washer M12	11120000	4
12	Trottle Lever, Engine	70000040	1
13	Engine	25000001	1
14	Belt Cover Plate	2303-18000-3	1
15	Washer	70000049	3
16	Key 6.35x50	206.3550C	1
17	Clutch Assy.	2302-10260-1	1
18	Belt	27AV13X867Li	1
19	Washer M10x30x3	11103003	1
20	Spring Washer M10	12100000	5
21	Bolt 7/16-20x1-1/2	15100400Y	1
22	Belt Cover	2303-00005-1	1
23	Allen Screw M8x80	16088017	3
24	Allen Screw M8x35	16083503	1
25	Sponge Sealing	2302-00064-4	1
26	Lock Nut M8	13080001	2
27	Washer M8	11080000	8
28	Battery Top Cover	2302-24100-3	1
29	Bracket	2302-24002-1	2
30	Nut M8	13080000	2
31	Battery	2302-24001-4	1
32	Battery Rubber Pad	2302-00065-1	1
33	Wire -	2302-00067-1	1
34	Connector 8-5	Y56-11	2
35	Wire +	2302-00066-1	1

No.	Description	Drawing No.	Qty
36	Connector 8-8	Y56-10	2
37	Engine Base	2303-00008-4	1
38	Dust Cover	1604-00009-4	1
39	Allen Screw M6x16	16061604	2
40	R Clamp Ø9	70000001	1
41	Bolt M6x16	15060160	1
42	Allen Screw M8x50	16085018	4
43	Spacer	2303-00023-1	4
44	Oil Outlet Plug	2304-00013-1	1
45	Washer M10	11100000	4
46	Bolt M10x40	15100400	4
47	Bolt M8x16	15080160	6
48	Front Cover, Frame	2303-00022-1	1

VIBRATOR AND PLATE

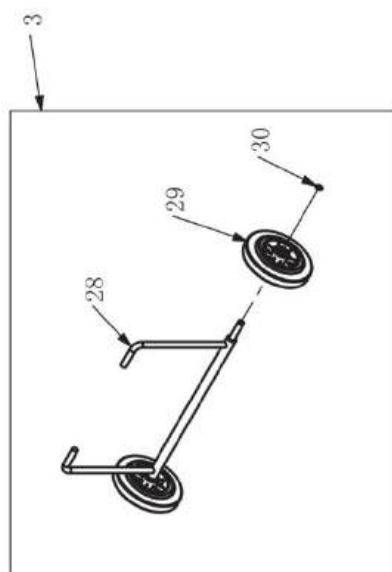
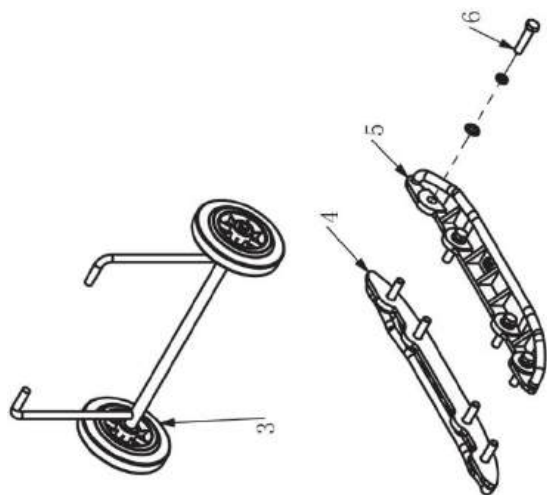


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No.	Description	Drawing No.	Qty
1	Bolt M12x120	15121201	6
2	Spring Washer M12	12120000	16
3	Washer M12	11120000	12
4	Bolt M12x45	15120450	2
5	Vibrator Assy.	2302-13000-1	1
6	Belt Cover (Lower-Out)	2303-23001-1	1
7	Allen Screw M6x45	16064503	5
8	Lock Nut M12	13120001	4
9	Shock Absorber	1604-00004-4	4
10	Washer M12x35x5	11123505	4
11	Bolt M12x35	15120350	4
12	Washer M16	11160000	8
13	Spring Washer M16	12160000	8
14	Bolt M16x25	15160250	8
15	Vibrating Plate	2303-00001-1	1
16	Sealing M16	14160002	1
17	Plug M16x1.5x12	70161512	1
18	Bolt M8x25	15080250	8
19	Spring Washer M8	12080000	9
20	Washer M8	11080000	8
21	Bearing Cover	2302-13014-1	1
22	Bearing NJ307	21NJ307EM1C4	3
23	Circlip Ø35	18350001	8
24	Gear, Drive	2302-13012-4	1
25	Rotary Shaft, Drive	2302-13013-4	1
26	Allen Screw M10x1.25x30	16103011	4
27	Eccentric Rotator	2302-13011-4	4
28	Bearing NJ307	21NJ307EM1	1
29	Key 10x18.5	20100818A	1
30	Bearing 61907	2161907-2Z	2
31	Shaft, Driven	2302-13002-4	1
32	Gear, Driven	2302-13001-4	1
33	Vibrating Case	2302-13010-1	1
34	Oil Sealing TCØ45xØ28x8	2528450802	1
35	Key 8x25	20080725A	1

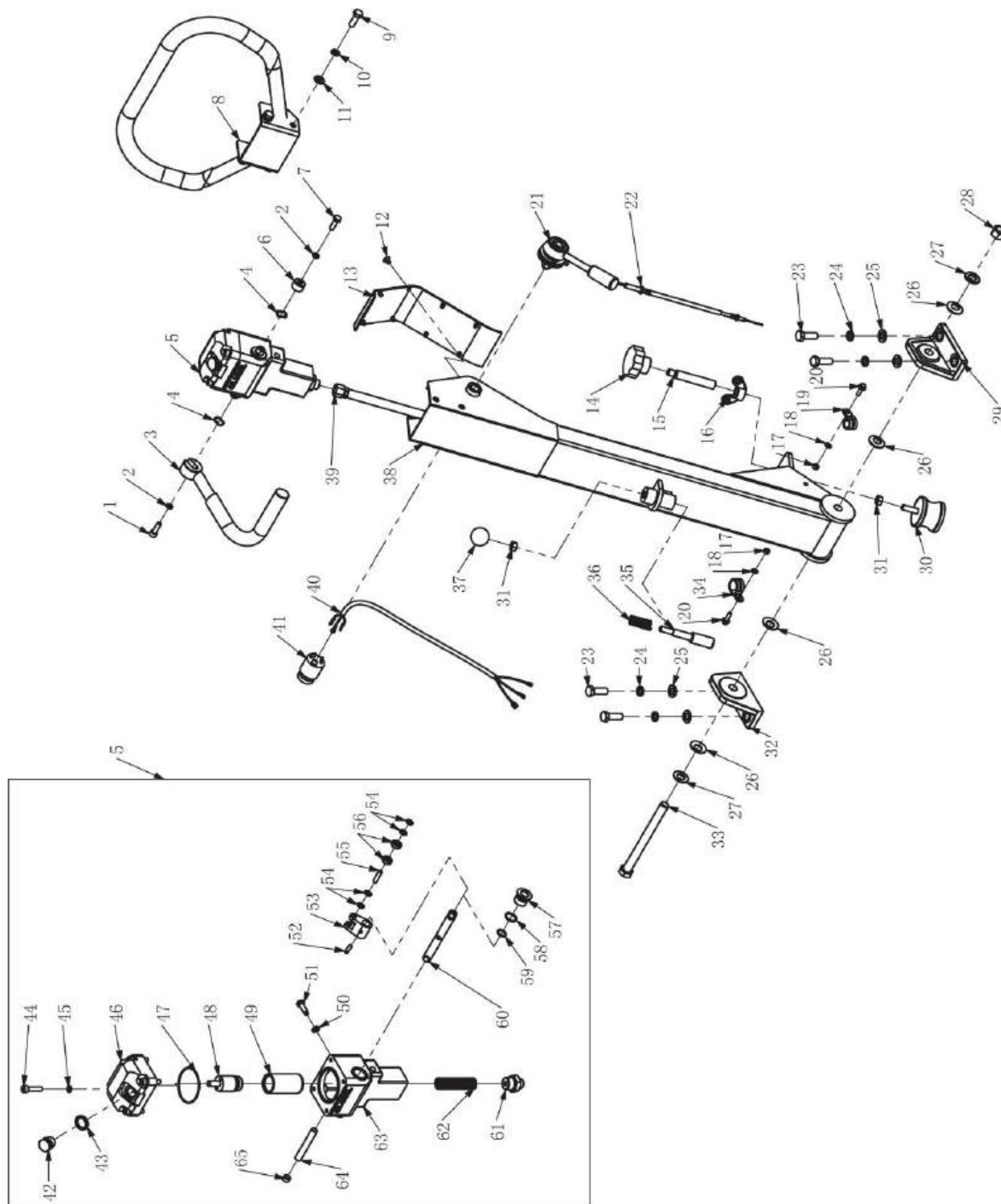
No.	Description	Drawing No.	Qty
36	Pulley	2302-13015-4	1
37	Spacer	2302-13016-4	1
38	Bolt M8x40	15080400	1
39	Bolt M6x12	15060122	2
40	Sealing Cap	2302-13009-1	1
41	O-Ring $\Phi 43 \times 3.1$	260433.1	1
42	Pin	2302-13008-4	1
43	Piston Rod	2302-13007-4	1
44	Circlip $\Phi 26$	18260002	1
45	Bearing 6000	216000-2Z	2
46	Circlip $\Phi 10$	18100004	1
47	Piston	2302-13005-1	1
48	Oil Sealing USH $\Phi 22.4 \times \Phi 30 \times 5$	2222.43005	1
49	Cylinder	2302-13003-1	1
50	Sealing M8	14080002	1
51	Bolt M8x12	2302-13004-1	1
52	Joint	2302-13006-4	1



OPTIONAL

No.	Description	Drawing No.	Qty
3	Wheel Kits	2303-17000-1	1
4	Extension Plate (Left)	2303-11001-4	1
5	Extension Plate (Right)	2303-11002-4	1
6	Bolt M16	15160701	8
28	Wheel Bracket	2303-17100-3	1
29	Wheel	24200602	2
30	Circlip	18160001	2

19. SPARE PARTS LIST BTPC350



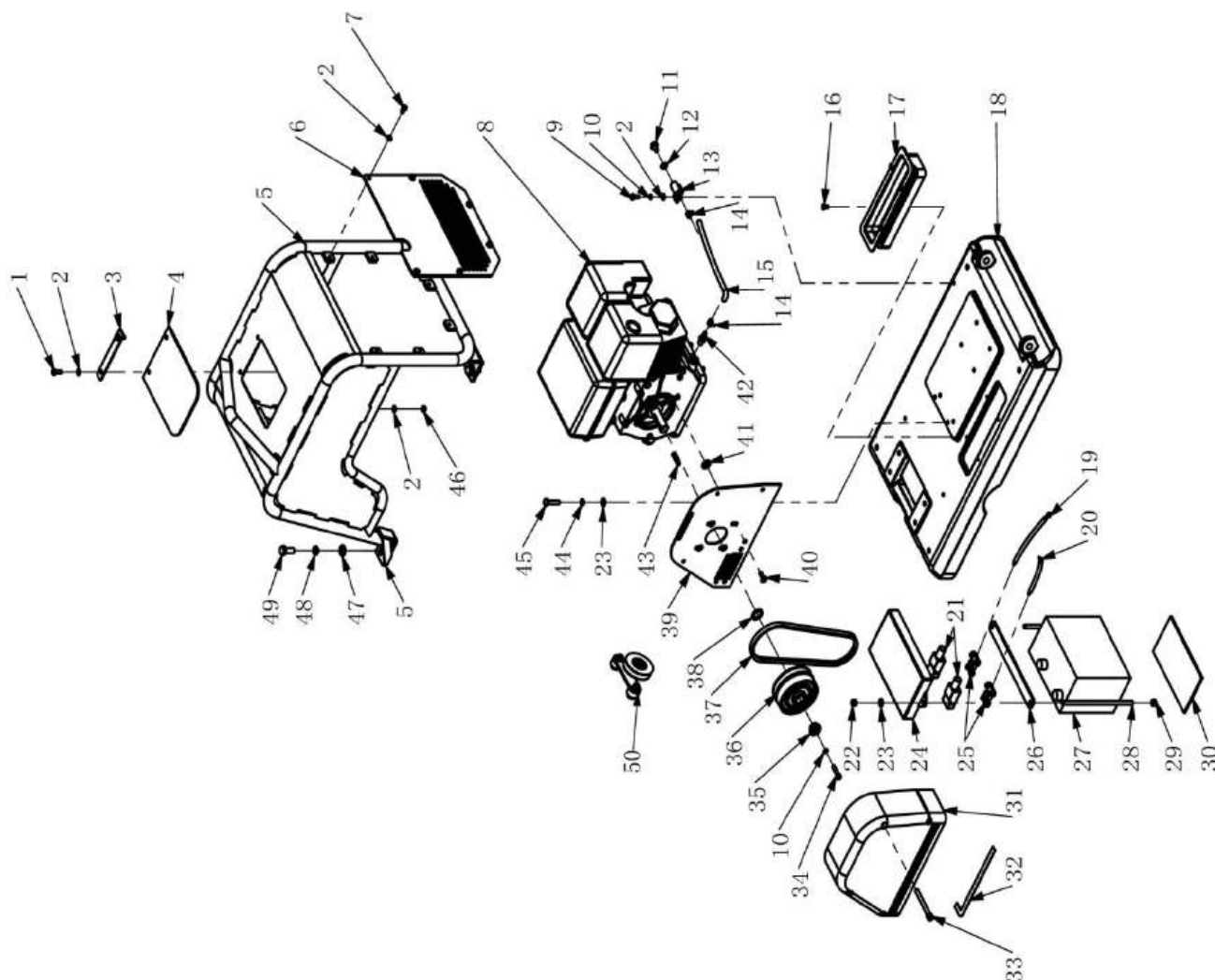
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CONTROL

No.	Description	Drawing No.	Qty
1	Allen Screw M8x25	16082503	1
2	Spring Washer M8	12080000	2
3	Travel Lever	2302-07000-4	1
4	Wave Washer $\Phi 22 \times \Phi 16 \times 0.3$	14220005	2
5	Handle Pump Assy.	2304-07000-1	1
6	Collar	2302-00032-4	1
7	Bolt M8x25	15080250	1
8	Handle Grip	2304-02000-4	1
9	Bolt M10x30	15100300	4
10	Spring Washer M10	12100000	4
11	Washer M10	11100000	4
12	Allen Screw M6	16061021	8
13	Back Cover, Handle	2304-00005-2	1
14	Wing Nut	2304-00020-4	1
15	Adjust Set Screw, Handle	2304-00023-4	1
16	Wing Nut	13160005	1
17	Lock Nut M6	13060001	2
18	Washer M6	11060000	2
19	Clamp	70000021	1
20	Bolt M6x20	15060202	2
21	Oil Lever Assy.	2304-14000-1	1
22	Trottle Wire	2304-00018-4	1
23	Bolt M12x35	15120350	4
24	Spring Washer M12	12120000	4
25	Washer M12	11120000	4
26	Wave Washer M16x32x2/1.5	14160001	4
27	Washer M16	11160000	2
28	Lock Nut M16	13160001	1
29	Bracket (Left)	2304-00011-4	1
30	Shock Absorber	2301-01000-4	1
31	Nut M10	13100000	2
32	Bracket (Right)	2304-00010-4	1
33	Bolt M16	15161801	1
34	Clamp	70000022	1

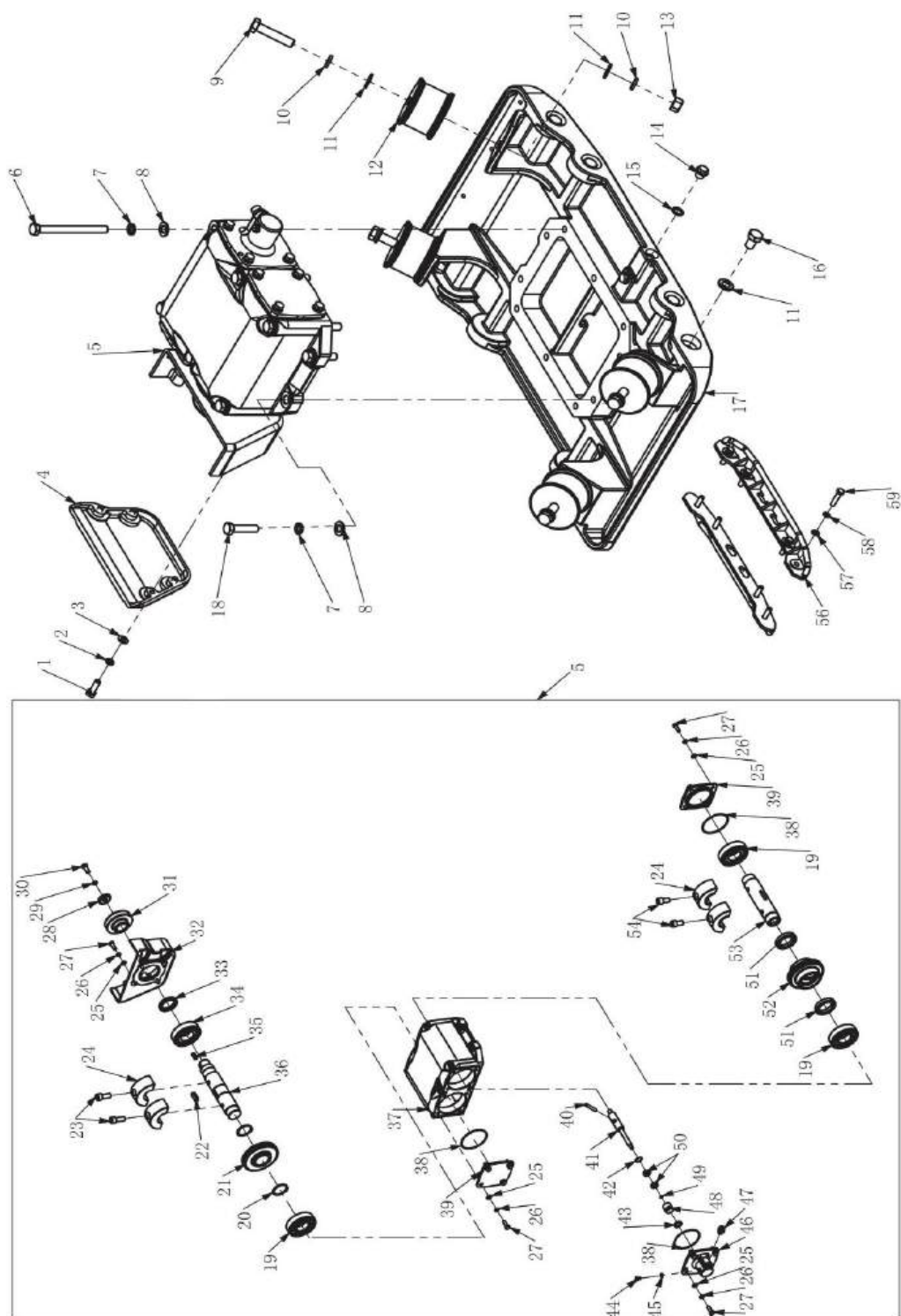
No.	Description	Drawing No.	Qty
35	Lock Pin	2304-00003-4	1
36	Spring, Stop Shaft	2304-00002-4	1
37	Grip	28103006	1
38	Handle	2304-05000-4	1
39	Hydraulic Hose	2304-00017-4	1
40	Wire	2304-23001-1	1
41	Electric Start Switch		1
42	Breather Cap	2302-14200-1	1
43	Sealing M20	14200002	1
44	Allen Screw M8x35	16083503	4
45	Spring Washer M8	12080000	4
46	Cover, Handle Pump	2304-07002-1	1
47	O-Ring $\Phi 70 \times 2$	2607002	1
48	Piston CP	2302-14100-1	1
49	Bushing	2302-14008-1	1
50	Sealing M8	14080002	1
51	Bolt M8x30	2302-14003-1	1
52	Pin 6x24	2302-14012-4	1
53	Travel Lever	2302-14009-1	1
54	Nylon Washer 14x7.75x0.8	2302-00025-4	4
55	Pin 7x30	2302-14005-4	1
56	Bearing 607	21607-2Z	2
57	Bushing	2302-14001-1	2
58	O-Ring $\Phi 24 \times 2.5$	260242.5	2
59	O-Ring $\Phi 19 \times 2.5$	260192.5	2
60	Shaft, Travel Lever	2304-07003-4	1
61	Hose Joint	2302-14006-4	1
62	Spring	2302-14010-4	1
63	Body, Handle Pump	2304-07001-1	1
64	Stop Shaft	2304-07004-4	1
65	Plug R1/4x10	2302-14002-4	1



ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Bolt M8x25	15080250	2
2	Washer M8	11080000	11
3	Plate, Rubber Cover	2302-00024-1	1
4	Rubber Cover	2302-00029-1	1
5	Frame	2304-12000-3	1
6	Front Cover, Frame	2304-11100-2	1
7	Bolt M8x16	15080160	6
8	Engine	25000023	1
9	Bolt M8x20	15080200	1
10	Spring Washer M8	12080000	2
11	Plug M10x1x16	70101016	1
12	Washer M10x1	70000004	1
13	Plug	2302-06000-3	1
14	Clamp Φ 12	70000003	2
15	Engine Oil Drain	2304-00022-1	1
16	Allen Screw M6x16	16061604	4
17	Dust Cover	2304-00009-4	1
18	Engine Base	2304-00012-4	1
19	Wire (-)	2304-00025-1	1
20	Wire (+)	2304-00024-1	1
21	Protective Cover	70000033	1
22	Lock Nut M10	13100001	2
23	Washer M10	11100000	6
24	Battery Cover	2304-20002-2	1
25	Battery Clamp	70000032	1
26	Battery Plate	2304-20102-2	1
27	Battery	2304-20003-4	1
28	Battery Bracket	2304-20001-1	2
29	Nut M10	13100000	2
30	Rubber Pad	2304-00027-1	1
31	Belt Cover	2304-00006-1	1
32	Sponge Sealing	2302-00064-4	1
33	Allen Screw M10x95	16109513	4
34	Allen Screw M8x35	16083503	1

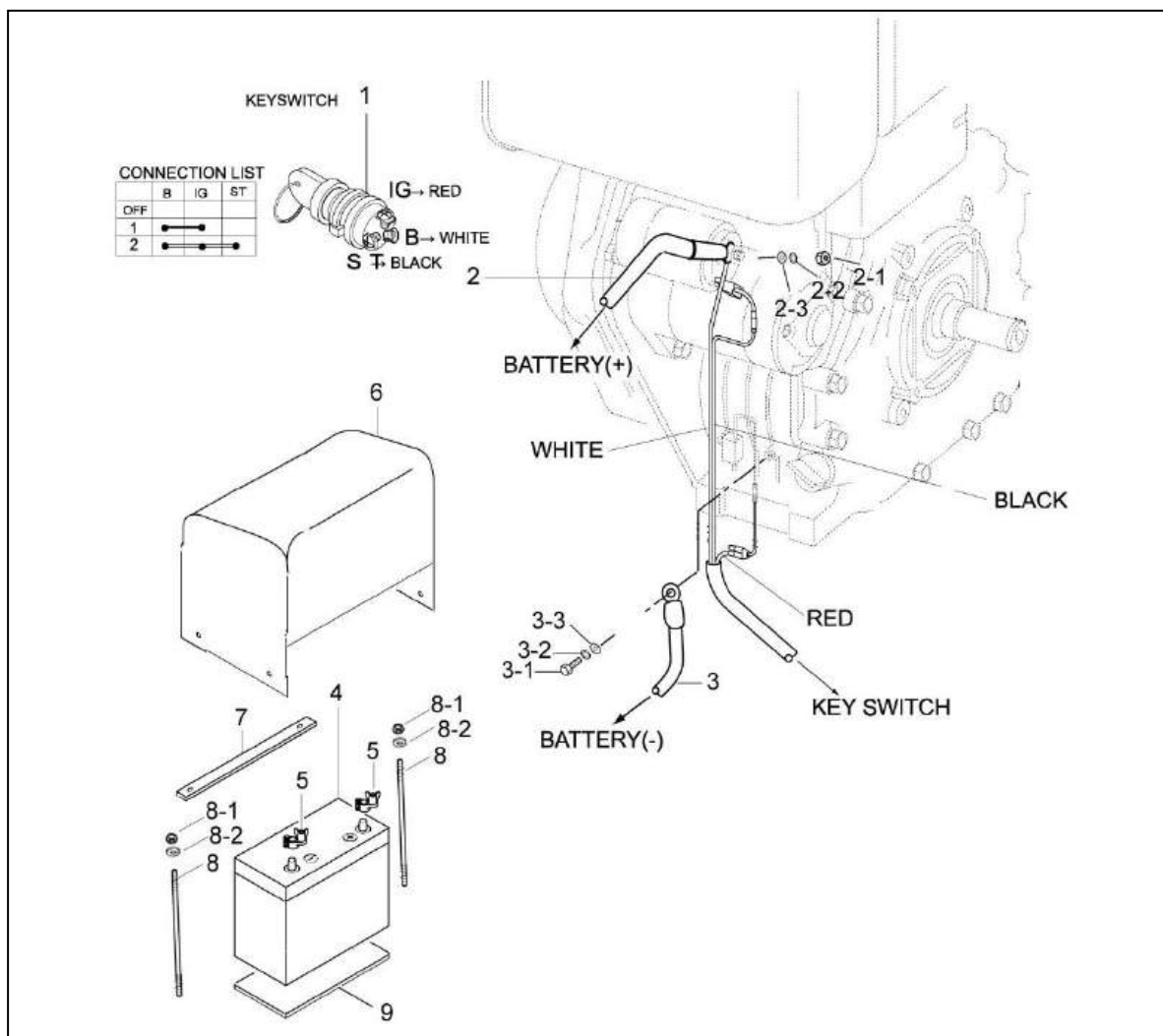
No.	Description	Drawing No.	Qty
35	Spacer	1903-00021-1	1
36	Clutch Assy.	2304-08000-1	1
37	Belt	27AV17X912La	1
38	Washer	70000049	1
46	Belt Cover Plate	2304-00007-2	1
47	Allen Screw M8x25	16082504	4
48	Washer M8x26x4	11082604	4
42	Joint	2302-00009-1	1
43	Key 7x40	20070740C	1
44	Spring Washer M10	12100000	4
45	Bolt M10x45	15100450	4
46	Lock Nut M8	13080001	2
47	Washer M14	11140000	4
48	Spring Washer M14	12140000	4
49	Bolt M14x35	15140350	4
50	Tensioner (Optional)	2304-25000-1	1



VIBRETOR AND PLATE

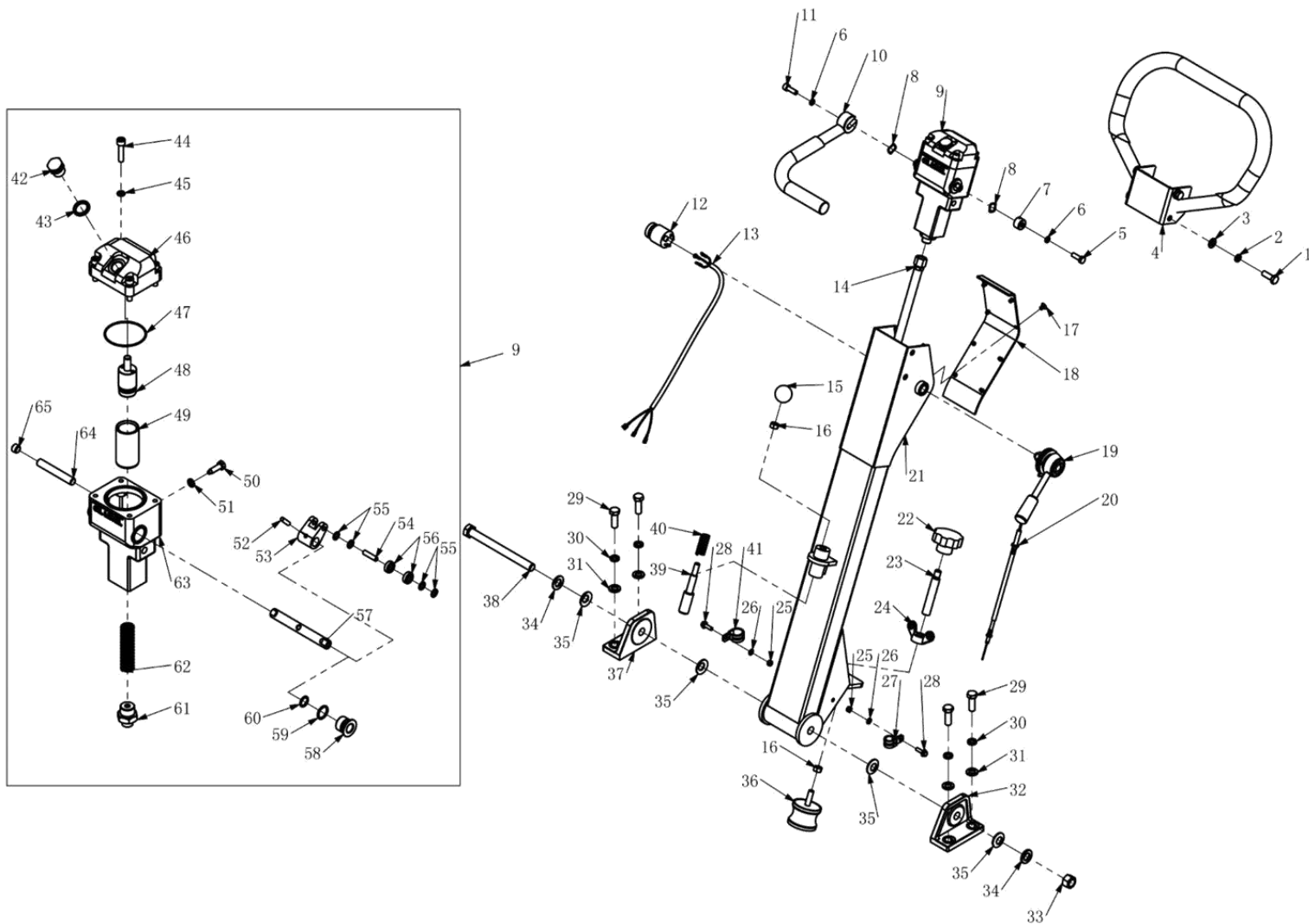
No.	Description	Drawing No.	Qty
1	Bolt M10x30	15100300	4
2	Spring Washer M10	12100000	4
3	Washer M10	11100000	4
4	Belt Cover (Lower-Out)	2304-00004-1	1
5	Viberating Case Assy.	2304-03000-1	1
6	Bolt M14	15141601	6
7	Spring Washer M14	12140000	10
8	Washer M14	11140000	10
9	Bolt M16	15160751	4
10	Spring Washer M		

No.	Description	Drawing No.	Qty
35	Key	20120830A	1
36	Rotary Shaft, Drive	2304-03010-4	1
37	Body, Viberating Case	2304-03009-1	1
38	O-Ring $\Phi 106 \times 3.1$	261063.1	3
39	Bearing Cover	2304-03002-1	2
40	Pin	2304-03004-4	1
41	Piston Rod	2304-03013-4	1
42	Circlip $\Phi 26$	18260002	1
43	Oil Sealing USH $\Phi 22.4 \times \Phi 30 \times 5$	2222.43005	1
44			



ELECTRIC DEVICE			
S/NO	PART NO	DESCRIPTION	QTY
1	CPC-350-1F	STARTER SWITCH AY	1
2	CPC-350-2F	BATTERY CORD (+)	1
2-1	CPC-350-2-1F	NUT M8	1
2-2	CPC-350-2-2F	SW M8	1
2-3	CPC-350-2-3F	PW M8	1
3	CPC-350-3F	BATTERY CORD (-)	1
3-1	CPC-350-3-1F	BOLT M8	1
3-2	CPC-350-3-2F	SW M8	1
3-3	CPC-350-3-3F	PW M8	1
4	CPC-350-4F	BATTERY	1

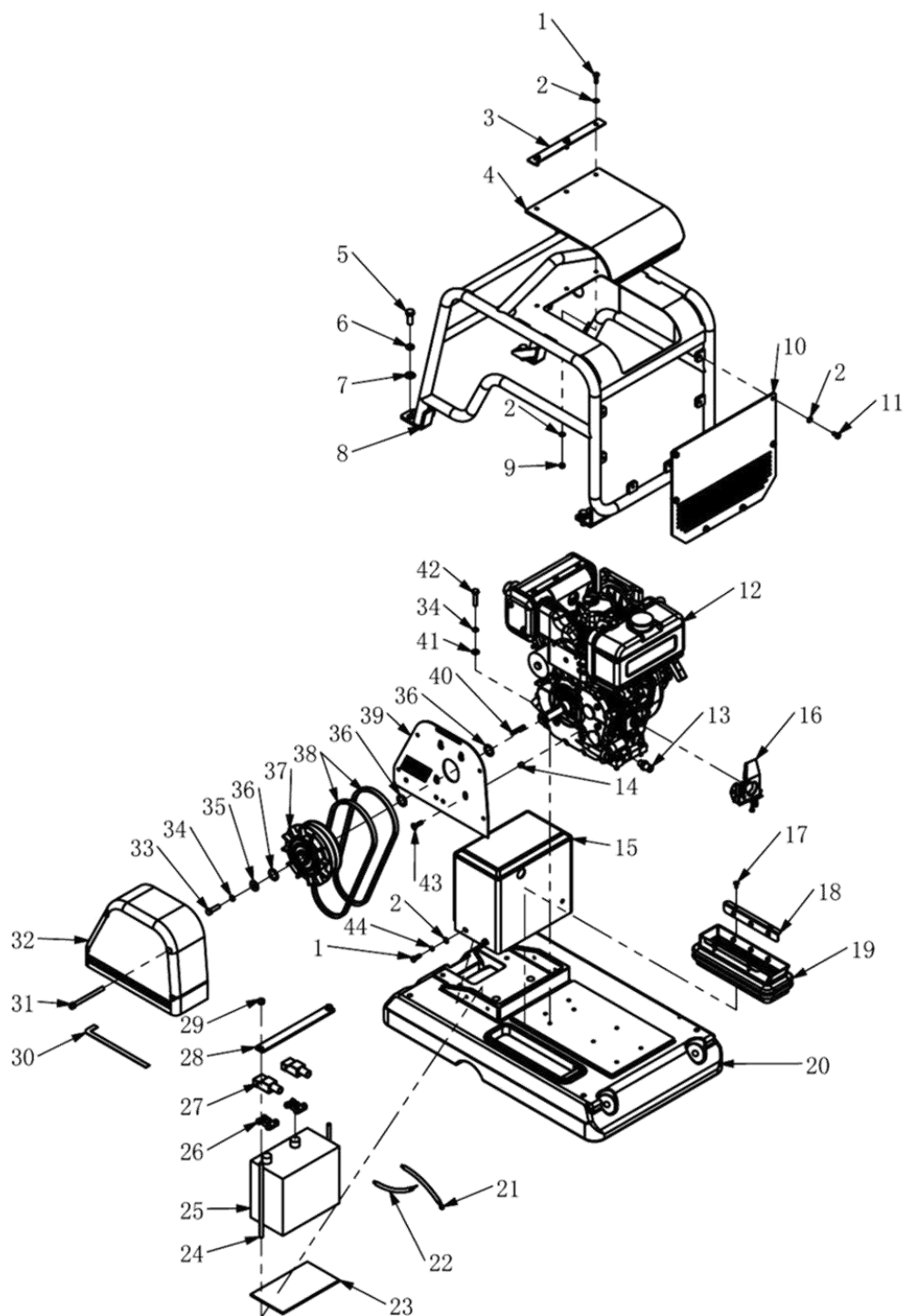
20. SPARE PARTS LIST BTPC405



CONTROL

No.	Description	Drawing No.	Qty
1	Bolt M10	15100300	4
2	Spring Washer M10	12100000	4
3	Washer M10	11100000	4
4	Handle Grip	2304-02000-4	1
5	Bolt M8	15080250	1
6	Washer M8	12080000	2
7	Collar	2302-00032-4	1
8	Wave Washer	14220005	2
9	Handle Pump Assy.	2304-07000-1	1
10	Travel Lever	2302-07000-4	

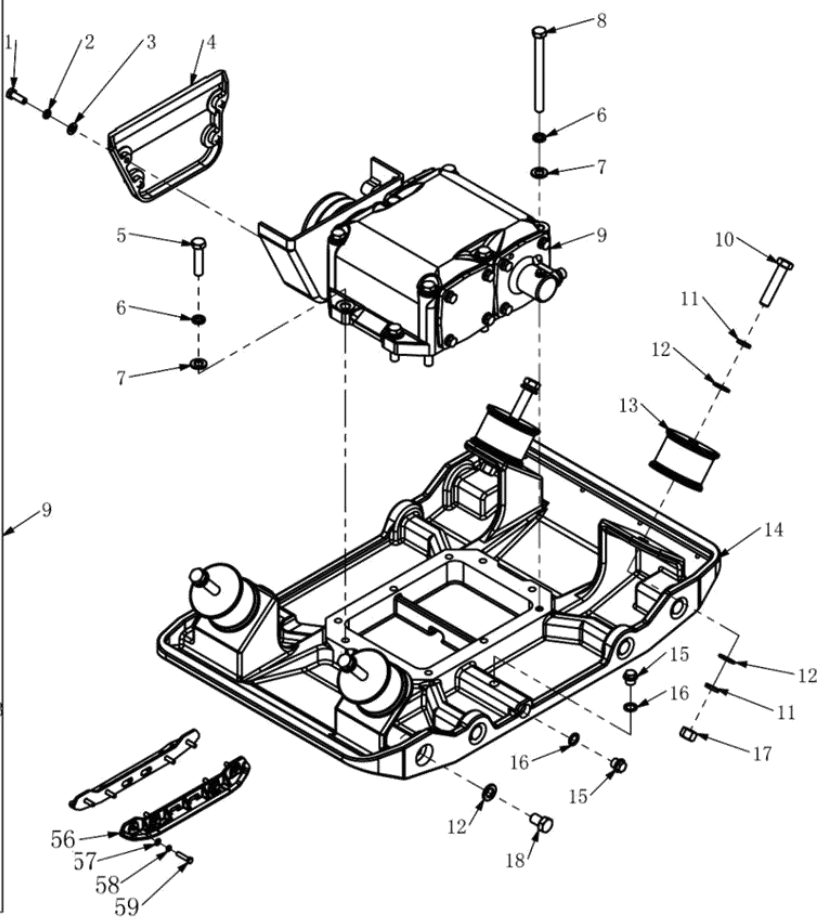
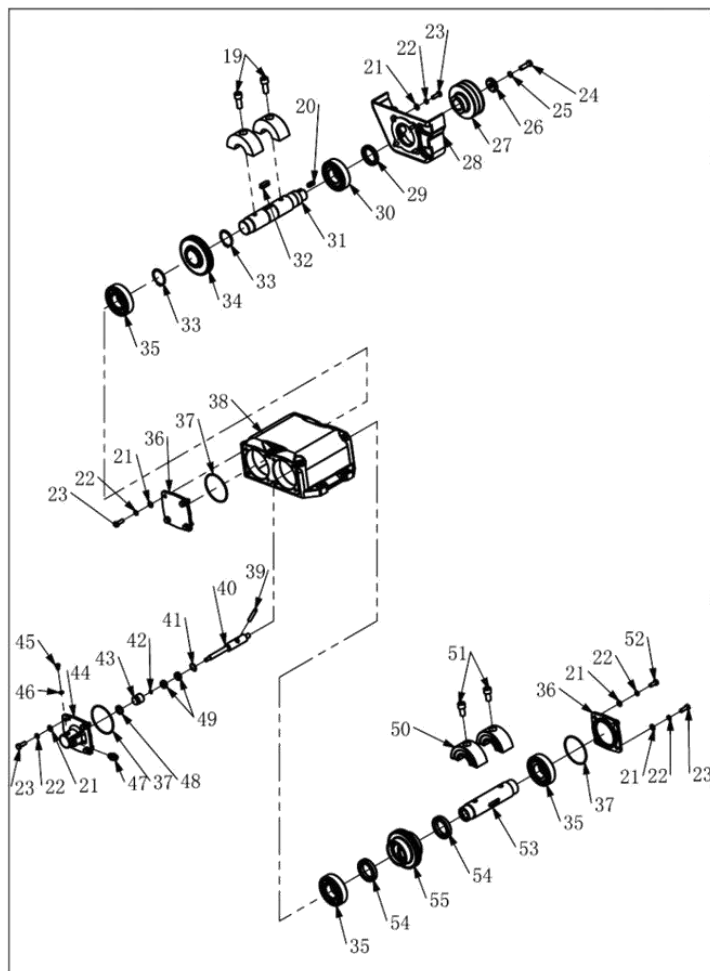
No.	Description	Drawing No.	Qty
34	Washer M16	11160000	2
35	Wave Washer	14160001	4
36	Shock Absorber	2301-01000-4	1
37	Bracket (Right)	2304-00010-4	1
38	Bolt M16	15161801	1
39	Lock Pin	2304-00003-4	1
40	Spring, Stop Shaft	2304-00002-4	1
41	Clamp	70000022	1
42	Breather Cap	2302-14200-1	1
43	Sealing	14200002	1
44			



ENGINE AND FRAME

No.	Description	Drawing No.	Qty
1	Bolt M8	15080250	7
2	Washer M8	11080000	17
3	Rubber Platen, Frame	2304-00014-2	1
4	Rubber, Frame	2304-00015-1	1
5	Bolt M14	15140350	4
6	Spring Washer M14	12140000	4
7	Washer M14	11140000	4
8	Frame	2305-11000-3	1
9	Lock Nut M8	13080001	3
10	Front Cover, Frame	2305-11200-2	1
11	Bolt M8	15080160	6
12	Engine	25000014	1
13	Oil Outlet Plug	2304-00013-1	1
14	Spacer	2305-00010-1	4
15	Battery Cover	2305-06100-3	1
16	Trottle Lever, Engine	70000040	1
17	Allen Screw M6	16061604	4
18	Plate, Dust Cover	2305-00001-2	2
19	Dust Cover	2305-00004-4	1
20	Engine Base	2305-00002-4	1
21	Wire (-)	2305-00008-1	1
22	Wire (+)	2305-00007-1	1
23	Rubber Pad	2304-00027-1	1
24	Battery Bracket	2304-20001-1	2
25	Battery	2304-20003-4	1
26	Battery Clamp	70000032	1
27	Protective Cover	70000033	1
28	Battery Plate	2305-06002-2	1
29	Lock Nut M10	13100001	2
30	Sponge Sealing	2302-00064-4	1
31	Allen Screw M10	16112013	4
32	Belt Cover	2305-00006-1	1
33	Bolt 7/16	15100400Y	1

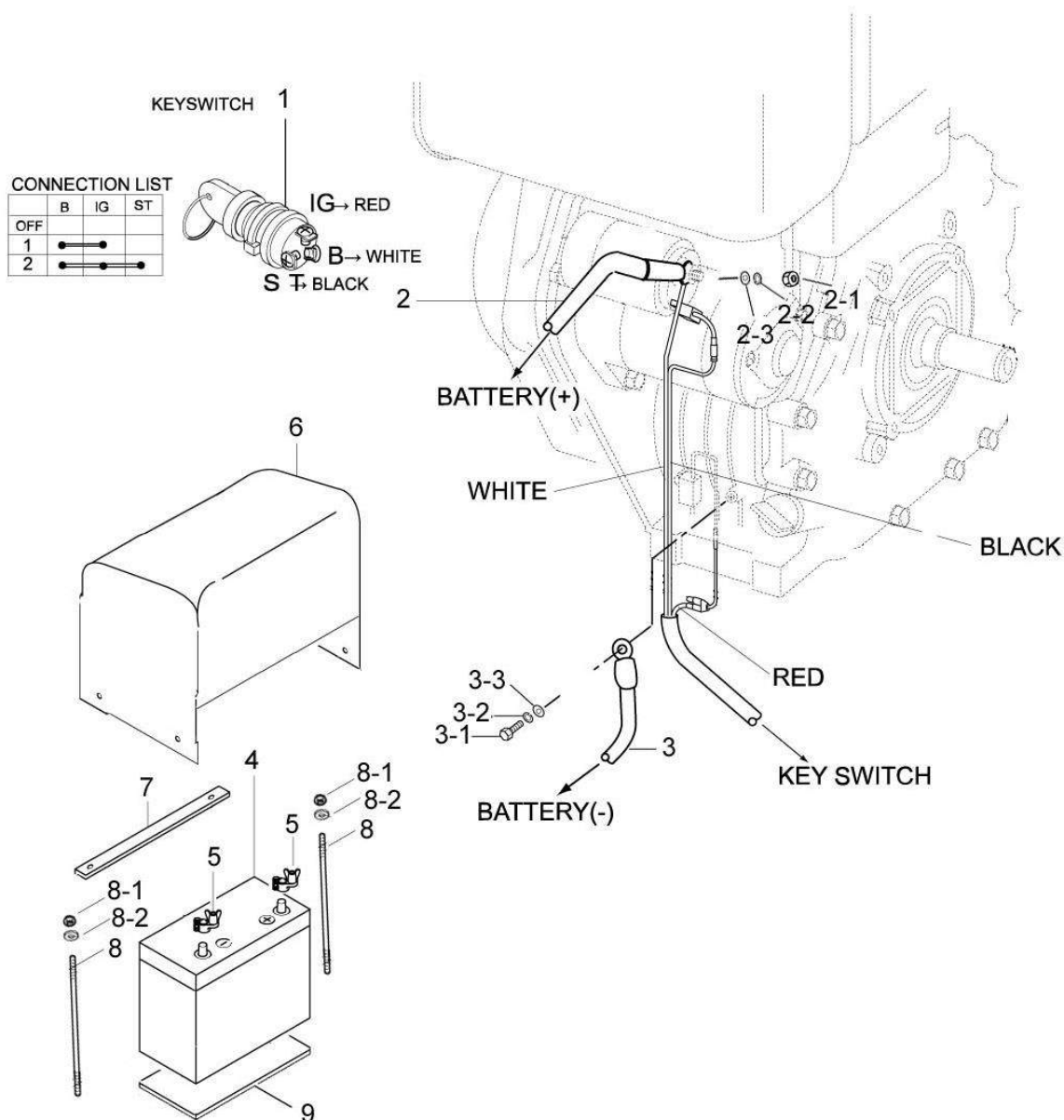
No.	Description	Drawing No.	Qty
34	Spring Washer M10	12100000	5
35	Washer M10	11103003	1
36	Washer	70000049	3
37	Clutch Assy.	2305-03900-1	1
38	Belt	27AV17X1046La	2
39	Belt Cover Plate	2304-00007-9	1
40	Key	206.3550C	1
41	Washer M10	11100000	4
42	Bolt M10	15100450	4
43	Allen Screw 5/16	16083004Y	4
44	Washer M8	12080000	4



VIBRATOR AND PLATE

No.	Description	Drawing No.	Qty
1	Bolt M10	15100300	4
2	Spring Washer M10	12100000	4
3	Washer M10	11100000	4
4	Belt Cover (Lower-Out)	2304-00004-1	1
5	Bolt M14	15140600	4
6	Spring Washer M14	12140000	10
7	Washer M14	11140000	10
8	Bolt M14	15141601	6
9	Viberating Case	2305-04000-1	1
10	Bolt M16	15160751	4
11	Spring Washer M16	12160000	8
12	Washer M16	11160000	16
13	Shock Absorber	2304-06000-4	4
14	Viberating Plate	2305-00003-4	1
15	Plug	70161512	2
16	Sealing	14160002	2
17	Lock Nut M16	13160001	4
18	Bolt M16	15160250	8
19	Allen Screw M16	16164011	2
20	Key	20120830A	1
21	Washer M10	11100000	16
22	Spring Washer M10	12100000	16
23	Bolt M10	15100300	14
24	Bolt M12	15120400	1
25	Spring Washer M12	12120000	1
26	Bearing Cover	2305-04004-1	1
27	Pulley	2305-04001-4	1
28	Belt Cover (Lower-In)	2305-04003-1	1
29	Oil Sealing	2550721002	1
30	Bearing	23NJ310EM1C4	1
31	Rotary Shaft, Drive	2304-03010-4	1
32	Key	20161040A	1
33	Circlip	18550001	2
34	Gear, Drive	2304-03011-4	1

No.	Description	Drawing No.	Qty
35	Bearing	23NJ310EM1	3
36	Bearing Cover	2304-03002-1	2
37	O-Ring	261063.1	3
38	Body, Viberating Case	2304-03009-1	1
39	Pin	2304-03004-4	1
40	Piston Rod	2304-03013-4	1
41	Circlip	18260002	1
42	Spring Washer M10	18100004	1
43	Piston	2302-13005-1	1
44	Cylinder	2304-03006-1	1
45	Blot M8	2302-13004-1	1
46	Spacer M8	14080002	1
47	Joint	2302-13006-4	1
48	Oil Sealing	2222.43005	1
49	Bearing	216000-2Z	2
50	Eccentric Rotator	2305-04002-4	4
51	Allen Screw M16	16163011	2
52	Bolt M10	15100250	2
53	Shaft, Driven	2304-03008-4	1
54	Bearing	1361911-2Z	2
55	Gear, Driven	2304-03005-4	1
56	Extension Plate	2305-07001-4	2
57	Washer M16	11160000	8
58	Spring Washer M16	12160000	8
59	Bolt M16	15160701	8



ELECTRIC DEVICE			
S/NO	PART NO	DESCRIPTION	QTY
1	CPC-405-1F	STARTER SWITCH AY	1
2	CPC-405-2F	BATTERY CORD (+)	1
2-1	CPC-405-2-1F	NUT M8	1
2-2	CPC-405-2-2F	SW M8	1
2-3	CPC-405-2-3F	PW M8	1
3	CPC-405-3F	BATTERY CORD (-)	1
3-1	CPC-405-3-1F	BOLT M8	1
3-2	CPC-405-3-2F	SW M8	1
3-3	CPC-405-3-3F	PW M8	1
4	CPC-405-4F	BATTERY	1
5	CPC-405-5F	BATTERY TERMINAL	2
6	CPC-405-6F	BATTERY COVER	1
7	CPC-405-7F	HOLDER, BATTERY	1
8	CPC-405-8F	BATTERY BOLT	2
8-1	CPC-405-8-1F	NUT M10	2
8-2	CPC-405-8-2F	PW M10	2
9	CPC-405-9F	RUBBER PACKING	1

21. DECLARATION OF CONFORMITY

Declaration of Conformity / Certificat de conformite / Gelijkvormigheidscertificaat / Declaracion de Conformidad / Declaracao de Concomridade / Dichiarazione Di Conformita

Model : BTPC

We Beton Trowel BV

Declare under our sole responsibility that the product to which this declaration relates is in conformity with the following standard(s) or other normative documents.

Déclarons sous notre responsabilité que le produit cette déclaration est conforme aux normes suivantes ou d'autres documents habituels.

Verklaren onder onze verantwoordelijkheid dat het product naar welke de verklaring verwijst conform de volgende standaards of anders gebruikelijke documenten is.

Declaramos bajo nuestra única responsabilidad que el producto en lo que esta declaración concierne, es conforme con la siguiente normativa u otros documentos.

Declara sob sua responsabilidade que o produto a quem esta declaração interessar, está em conformidade com os seguintes documentos legais ou normas directivas.

Dichiariamo sotto la ns. unica responsabilità che il prodotto al quale questa dichiarazione si riferisce, è fabbricato in conformità ai seguenti standard e documenti di normative.

EN 349:1993	Safety of Machinery - Minimum gaps to avoid crushing of parts of the human body.
EN 418:1993	Safety of Machinery - Emergency stop equipment, functional aspects - Principles for design
EN 12100-1:2003	Safety of Machinery - Basic Concepts, general principles for design - Part 1: Basic Terminology, methodology
EN 12100-2:2003	Safety of Machinery - Basic Concepts, general principles for design - Part 2: Technical Principles
EN ISO 4872:1978	Acoustics - Measurement of Airborne noise emitted by construction equipment Intended for outdoor use - Method for determining compliance with noise limits.
EN ISO 5349-1:2001	Mechanical vibration. Measurement and evaluation of human exposure to hand-transmitted vibration. General requirements
EN ISO 5349-2:2001	Mechanical vibration. Measurement and assessment of human exposure to hand-transmitted vibration. Practical guidance for measurement at the workplace.

Following the provisions of Directives / Suivant les directives determines / Volgens de vastgestelde richtlijnen:
Siguiendo las directivas / No sequimento das clausulas da Directivas / Seguendo quanto indicato dalla Direttivas:

98/37/EC	Machinery Directive
2000/14/EC	Noise Directive
2001/95/EC	General Product Safety Directive
2002/95/EC	Reduction of Hazardous Waste Directive


Responsible Technical File : Chris Livingston

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