

USER'S INSTRUCTION MANUAL FOR VIBRATORY SCREED

MODEL: JSV-35



**⚠ It is USER'S RESPONSIBILITY to communicate proper information on the
SAFE USE and GOOD OPERATION of this machine.**



The purpose of this user's instruction manual is to provide safety information and operating instructions in order to protect the user from exposed danger. For your own safety, please read the safety instructions and operating instructions described in this manual thoroughly before use.

THE INFORMATION CONTAINED IN THIS MANUAL IS BASED ON MACHINE IN PRODUCTION AT THE TIME OF PUBLICATION. JEONIL RESERVES THE RIGHT TO MODIFY THE EQUIPMENT WITHOUT PRIOR NOTICE.

Please refer the following symbols as important remarks for the operation and maintenance.



indicates the warnings which must be precisely followed in order to prevent the screed from being damaged or destroyed.



indicates the danger which must be precisely followed in order to exclude the danger of personal injury.



indicates the important note (or information) which must be precisely perceived by the operator and the servicing personnel.



It is USER'S RESPONSIBILITY to communicate proper information on the SAFE USE and GOOD OPERATION of this machine. Please contact your local JEONIL distributor or any of the contact address in this manual directly for further information.

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1. Safety Information

The product, The Screed, is only allowed to be operated under the intended conditions. This equipment is for industrial use only. It is prohibited to use it for any other purpose.

Although the product is designed with special attention to the safety, it still is the user's responsibility to read the safety information THOROUGHLY AND CAREFULLY in this manual to avoid the exposed danger before use.

The safety information in this manual alerts you to use the product safely without exposing in possible injury or damage.

Do not modify or disassemble the product.

2. Precautions

- 1) USERS MUST READ THE OPERATING INSTRUCTION IN THIS MANUAL CAREFULLY BEFORE USE.
- 2) KEEP THE UNAUTHORIZED, INEXPERIENCED, UNTRAINED PEOPLE AWAY FROM THIS EQUIPMENT.
- 3) MAKE SURE ALL GUARDS & SAFETY DEVICES ARE SECURLY PLACED IN THE ROTATING PARTS.
- 4) KEEP AWAY FROM THE DANAGER ZONE OF THE SCREED.
- 5) DO NOT OPERATE THE SCREED IN AN ENCLOSED AREA because its engine produces carbon monoxide gas.
- 6) STOP THE ENGINE COMPLETELY AS DESCRIBED IN THIS MANUAL BEFORE SERVICING, CLEANING OR ADDING FUEL.
- 7) DO NOT REFUEL THE SCREED NEAR THE FLAMMABLE MATERIALS. It may cause fire.
- 8) BE CAREFUL NOT TO SPILL THE FUEL IN ENGINE, and make sure to wipe off completely if spilled before starting the engine.
- 9) DO NOT TOUCH THE MUFFLER DURING AND AFTER THE OPERATION because it generates mechanical heat which might cause heat burn.
- 10) USERS MUST BE FULLY EQUIPPED WITH APPOROVED PROTECTIVE EQUIPMENTS such as safety helmet, safety gloves, safety shoes, ear plugs, safety glasses, protective clothing, mask and etc.



FAILURES TO COMPLY WITH THE ABOVE PRECAUTIONS CAUSE SERIOUS INJURY.

3. Warning

3.1 To avoid fatal accident

- 1) Stop the engine before refueling it and be careful not to spill the fuel during the refueling. Spilled fuel may cause fire.
- 2) Do not refuel the engine near inflammables to avoid fire.
- 3) Do not run the engine in an airtight space to avoid exhaust gas poisoning

3.2 To protect the operator

- 1) When operator feels the fatigue comes from vibration, the operator must stop the machine and take a rest for a while.
- 2) An airborne noise emission level of the equipment is about 70 ~ 95 dB apart 1 m (3 feet) which requires to wear ear protectors.

3.3 To avoid injury or damage

- 1) The screeds are Only operated by authorized persons who:
 - are aged at least 18 years.
 - are physically and mentally able to handle the screed.
 - are properly trained in the operation and the maintenance of the screed by the owner or its authorized representative.
 - are assessed to be able to carry out their duties reliably.
- 2) People who are drinking alcohol beverages and/or taking drugs are not allowed to operate the screed.
- 3) People are not allowed to enter into the danger zone of the screed.
- 4) The operator has to monitor the danger zone all the time. It is not allowed to operate if there is a person in the danger zone.
- 5) Operate the screed away from other workers because the vibrating blades may injure other workers.
- 6) The operator has to give warning signs in case of an emergency situation.
- 7) The screed can only be operated when the adequate stability is granted.
- 8) The operator has to control the running speed of the screed all the time during its operation so that the screed can be stopped at any time in order to avoid toppling.
- 9) The operator must turn off the screed completely as described in this manual before leaving the operating position. Also, the screed must be secured against unauthorized use.
- 10) The engine has to be turned off and secured against re-starting by pulling out the sparking plug socket during the maintenance and servicing.
- 11) The operator has to control the screed as regards functions and obvious defects before use.
- 12) Discovered defects must be reported to supervising personnel and to the operator. Do not leave the defects which may cause serious injury of the operator.
- 13) Do not operate the screed when a defect endangers the safety of the operator until the defect is rectified.
- 14) The screed has to be checked by an expert in regular bases (at least once a year). And it must be checked by an expert before the initial use and after the essential modification.
- 15) During the operation, the operator has to monitor other objects within a radius of 20m in case of lighting.
- 16) The screed generates mechanical heat so do not touch the body of engine, muffler or other parts during the operation, which may cause heat burn. Please wait until it cools down to touch.
- 17) The operator must be fully equipped with safety equipment including a crash helmet, safety gloves, safety

shoes, safety glasses and mask before operating the screed.

18) Do not transport the screed with fuel in its fuel tank by the motor vehicle.

19) Make sure to securely fasten the screed for transportation. Improper fastening as holding the handle of the screed during the transportation may cause an injury.



Please refer to the enclosed instruction manual of engine if there is a problem or a question on engine before or during its operation.

5. Specifications

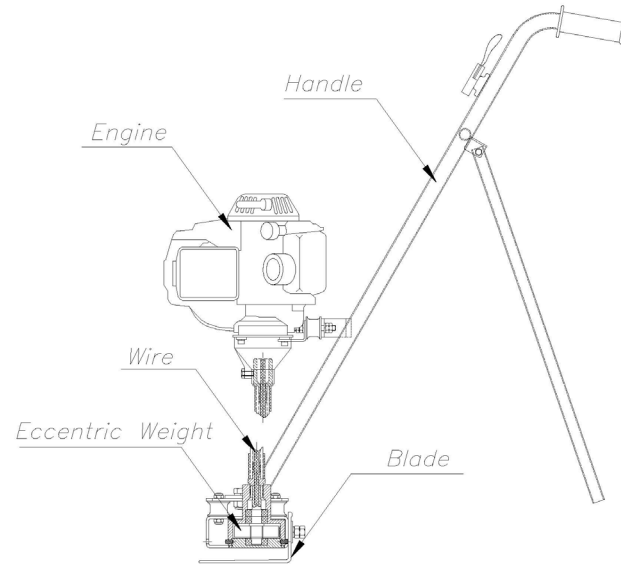
5.1 Specifications

**** CE CERTIFIED PRODUCT ONLY****

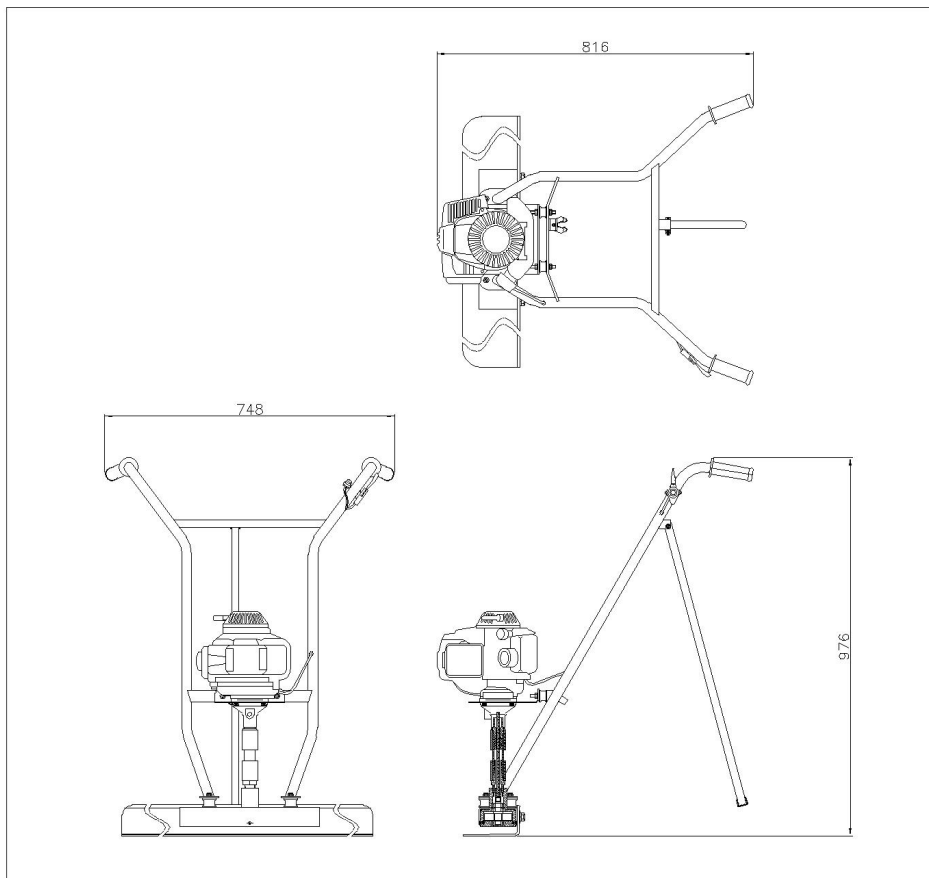
Vibratory Screed 

MODEL		JSV-35
WEIGHT	Kg(lb)	22(48.5)
BLADE LENGTH	M	3
VIBRATIONS	V/MIN	5,500
OVERALL SIZE	MM(IN)	L.1,630(64.1) x W.630(24.8) x H.980(38.5)
DRIVE SYSTEM		Flexible Shaft
ENGINE		GX35
FUEL		Unleaded Gasoline
KW	HP / RPM	1.6HP / 7,000RPM
OIL GRADE		SAE 10W/30
FUEL TANK	Liter (gal)	0.65 (172)
ORIGIN		Made in Korea

5.2 Main parts of Vibratory Screed



5.3 Outline Configuration



6. Engine

6.1 Recommended Fuel

- 1) Screed engine requires regular, unleaded gasoline. Use only fresh, clean fuel. Fuel containing water or dirt will damage the fuel system. Consult to engine owner's manual for screed fuel specifications.

6.2 Before starting

- 1) Read and understand the safety and operating instruction manual of the engine.
- 2) Check Point:
 - Oil level in engine.
 - Fuel level.
 - Condition of air cleaner.
 - Tightness of external fasteners.
 - Condition of fuel lines.

6.3 Starting the Engine

- 1) To start a cold engine, move the choke lever (Figure 01) to the CLOSED position.
If restarting a warm engine leave the choke lever in the OPEN position.
- 2) Press the priming bulb (Figure 02) repeatedly until fuel can be seen inside the clear plastic bulb.
- 3) Move the throttle lever slightly to the left.
- 4) Pull the starter rope (Figure 03) lightly until you feel resistance, the pull briskly.
Return the starter rope gently.



Note: If the engine oil level is low, the engine will not start.



Note: If the engine does not run, check the oil level and add oil if needed.

- 5) Once the engine has started, allow it to idle for 3 to 5 minutes for warm-up.
- 6) Open the throttle fully to operate vibratory screed.

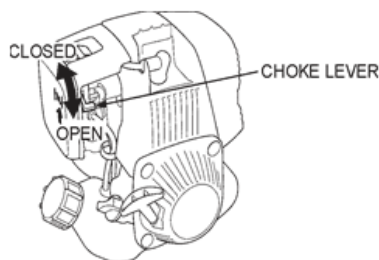


Figure 01

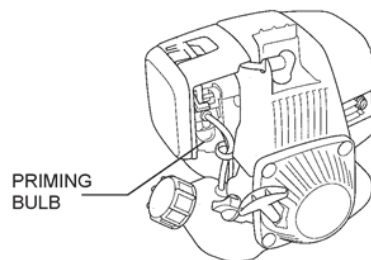


Figure 02

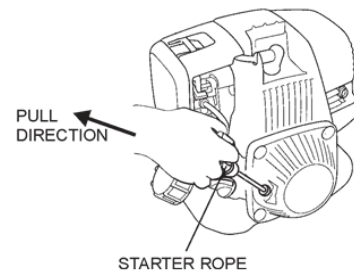


Figure 03

6.4 Stopping the Engine

- 1) Reduce the engine RPM to idle by moving throttle completely to the right as figure.
- 2) Press the Emergency Switch on the Handle.



Please see the instruction manual of engine for further detailed information.

7. Operation



All safety instructions are must be read and observed clearly before starting to operate; lack of clarity may cause troubles of the equipment and personal injury.

7.1 Preparation for operation

- 1) Check all the bolts, nuts and belts. If there is any looseness, tighten it.
- 2) Check the oil level. If the oil level is low, add fresh oil .
- 3) Refill the gasoline (Unleaded gasoline).

7.2 Operation



Please read the engine and vibratory screed user's manual before starting or operating this screed.

- 1) Check the fuel level, engine oil.
- 2) Press the priming bulb repeatedly until fuel can be seen inside the clear plastic bulb
- 3) Set the speed control lever 1/3 to 1/2 of the way towards to high speed position in direction of arrow.
- 4) Choke the engine. Note: A warm engine may not need to be choked.
- 5) When starting the engine, Grip the starter rope on the engine.
- 6) Pull the starter rope in direction of arrow.
- 7) After starting: Open the choke and allow engine to warm up at slow speed for 3 to 5 minutes.
- 8) Shift the speed control lever towards "high" position in direction of arrow after warm-up to increase the speed of engine to the required value.
- 9) To stop: Set the speed control lever at "low" position (in reverse direction of above figure) and then Press the emergency button switch on the handle.



Caution

**** Whenever the high speed operation is NOT Required, slow down the engine by moving the speed control lever to low position due to save the fuel and to extend the life of the equipment and to avoid injury.**

7.3 Turn off the Engine

- 1) Set the speed control lever at "low" position and leave the engine to run at low speed (idle) for 2 ~ 3 minutes before stopping.
- 2) Press the emergency button switch on the handle.



Never stop the engine abruptly at its full speed.

- 3) Pull the starter grip slowly and return it to its original position when resistance is felt.



Note: The above operation is necessary to prevent outside moisture air from intruding into the combustion chamber.



Caution

**** If the engine has been running hard, do not stop it abruptly from the full load.**

**** Cut down the speed (load) and allow the engine to run idle for a few more minutes.**

8. Transportation

- 1) Transport the vibratory screed by vehicle or two persons.
- 2) Make sure to hold the blade (or engine frame) properly when lifting the vibratory screed. Holding the handle for transportation may cause an injury.



Caution

**** Do not transport the vibratory screed with fuel in its fuel tank by the motor vehicle.**

**** To avoid burns or fire hazards, let engine cool down before transporting it or indoor storage.**

**** Keep the engine level to prevent fuel from spilling.**

9. Storage

In case of storing the vibratory screed for a long period of time (for more than 30 days):

- 1) Remove the foreign substances such as soil, stone or dirt from vibratory screed and its engine
- 2) Clean the water sprinkler as described in this manual.
- 3) Clean the engine cylinder cooling fins.
- 4) Clean or replace the air filter.

- 5) Change the engine oil and follow procedures described in engine manual for engine storage.
- 6) Cover it up with dry cloth completely for storage.
- 7) Store the vibratory screed and its engine in a clean, dry area.

10. Periodic Maintenance Schedule

Please refer to the following chart for the initial maintenance of vibratory screed and its engine. Also please see the enclosed engine manufacturer's instruction manual for additional information about engine maintenance.



The following chart is based on the normal operation schedule.

Maintenance Interval	Maintenance Point
Daily before operating	Check the fuel level. Check the engine oil level. Inspect the fuel lines. Inspect the air filter and replace it if needed. Check and tighten the external hardware.
After the first 20 operating hours or 3 months	Change the engine oil.
After the first 50 operating hours or every 6 months	Clean the air cleaner element. Change the engine oil. Check and clean the spark plug.
After the first 100 operating hours or every year	Clean the fuel strainer.
After the first 200 operating hours or every 2 years	Check and adjust the valve clearance. Clean the cylinder head. Replace the spark plug.

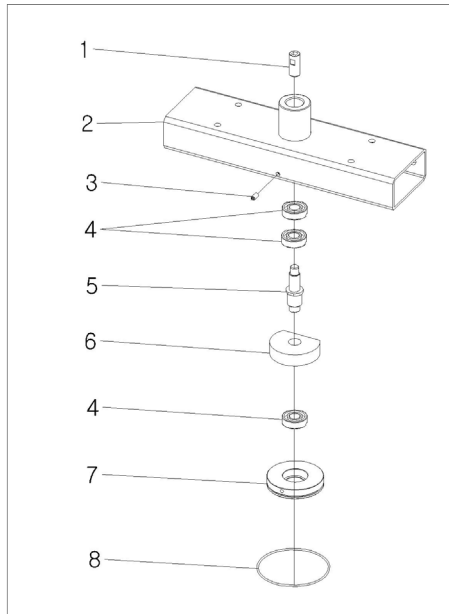
11. Troubleshooting

Please check the list below before addressing the problems to service personnel including local dealer. If the problem continues after the following troubleshooting, please call your local dealer for future assistance.

Failure	Possible Cause	Remedial Measure
Vibrates insufficient and as a result the concrete floor can't be leveled and smoothed in the proper way.	- The centrifugal force is too low. - There is excessive amounts of concrete along the leading edge of the blade. - The chosen width of the blade is too large?	- Increase engine speed. - Remove the excessive concrete from the blade. - Work with a smaller blade.
Concrete looks "WAVY" as the screed blade passes over it	- Operator moving too slowly? - Too much vibration for the type of concrete?	- Walk backwards at a faster pace. - Reduce engine speed and walk backwards at a faster pace.
Leaving HIGH or LOW spots during wet screeding.	- Concrete too high or low on one side?	- Have workers shape the concrete close as possible to grade. Maintain about 1 inch of concrete across the front of the blade at all times.
Blade digs into wet concrete.	- Is blade positioned correctly?	Each end of the blade must ride on the same surface. Either each end of the blade rides on forms or concrete(wet screed) not both.

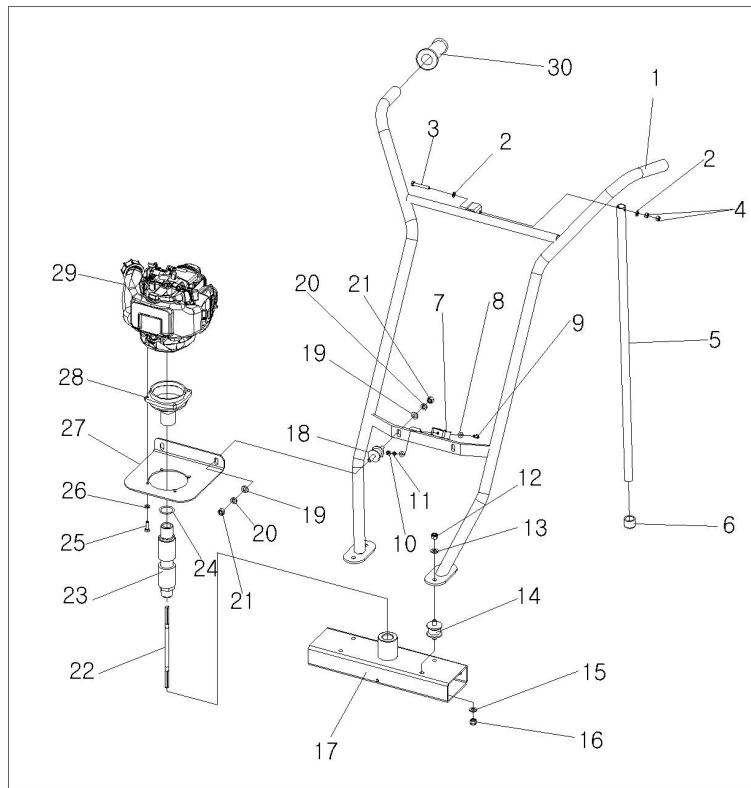
12. Components and Part list

12.1 Vibratory Housing



No.	Parts No.	Descriptions	Qty	Size or Dimension
1	SA040-004	Shaft Joint	1	
2	SA041-000	Vibrator Holder WA	1	
3	QBL-AM6x12	Acephalous Bolt	2	
4	QBL-6202	Bearing	3	6202zz
5	SA040-001	Vibrator Shaft	1	
6	SA040-002	Vibrator Weight	1	
7	SA040-003	Vibrator Case Cover	1	
8	QOR-S75	O-Ring	1	

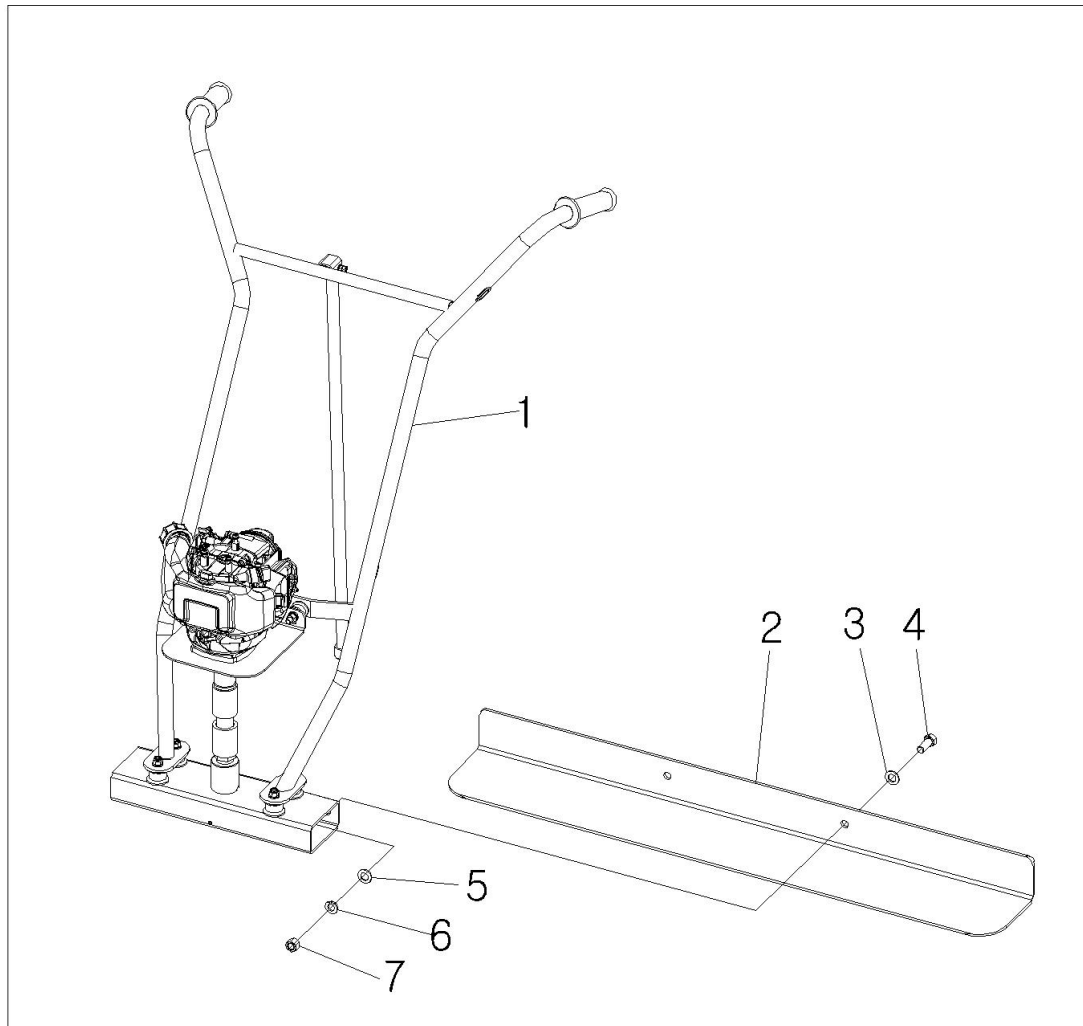
12.1 Screed Assembly



No.	Parts No.	Descriptions	Qty	Size or Dimension
1	SA070-000	Handle Welding Assembly	1	
2	QWS-PM6	Plain Washer	2	
3	QBL-M6x40	Bolt	1	M6*40L
4	QNT-M6	Nut	2	M6
5	SA070-008	Handle Support Pipe	1	
6	SA130-002	Handle Support Pipe Rubber	1	
7	SA700-001	Clip	1	
8	QWS-PM5	Plain Washer	2	M5
9	QBL-M5x15	Bolt	1	M5x15
10	QNT-M5	Nut	1	M5
11	QWS-SM5	Spring Washer	1	M5
12	QNT-NM8	Nylock Nut	4	M8
13	QWS-PM8	Plain Washer	4	M8
14	SA130-001	Handle Support Rubber	4	

15	QWS-PM8	Plain Washer	4	M8
16	QNT-NM8	Nylock Nut	4	M8
17	SA040-000	Vibratory Housing Assembly	1	
18	SA130-002	Handle Support Rubber	2	
19	QWS-PM8	Plain Washer	4	M8
20	QWS-SM8	Spring Washer	4	M8
21	QNT-M8	Nut	4	M8
22	WIRE-S215	Wire	1	
23	SA030-000	Hose Assembly	1	
24	QOR-P20	O-Ring	1	P20
25	QBL-M6x20	Bolt	4	M6x20L
26	QWS-SM6	Spring Washer	4	M6
27	SA020-001	Engine Plate	1	
28	CLUTCH-SC	Clutch Housing Assembly	1	
29	GX-35	Engine	1	Honda GX-35
30	SA130-003	Handle Rubber	2	

12.3 Screed Blade



No.	Parts No.	Descriptions	Qty	Size or Dimension
1	SA-GX35	Vibrator Screed	1	
2	SA010-xxFT	Screed Blade xx Feet	1	
3	QWS-PM12	Plain Washer	2	M12
4	QBL-M12x30	Bolt	2	M12x30
5	QWS-PM12	Plain Washer	2	M12
6	QWS-SM12	Spring Washer	2	M12
7	QNT-M12	Nut	2	M12

13. Warranty Periods

- 1) Warranty policies for the Products are shown on the following table.
- 2) **Jeonil** shall supply all necessary parts for the replacement or repair free of charge, if and only if, when the defects are proved to be derived from mill defect by 3rd party inspection or joint inspection of the two (2) parties.
- 3)
- 4) The products under specific private brand name according to the Buyer's requirements are treated in the same manner.
- 5) However, any defect caused by normal wear and tear, misuse, improper maintenance, alterations and repairs with non-confirming parts or by unauthorized person and negligence to read manual before the operation shall not be subject to the Warranty even during the period of warranty.

Product	Warranty period	Remarks
Concrete vibrator Handy vibrator Portable engine vibrator Submersible pump	6 (six) months under normal operation from the date of shipment from Korea, or 140 (one hundred forty) days from your date of sale (or purchase) to the 3rd party, which ever comes first.	In case of warranty claim, please send Claim report with following information. - Date of arrival & sale - Occurrence date - Description of product - Quantity of defect - Pictures for showing defects clearly - Suspected reason of the defect - Recommendation - Others
Plate compactor Power trowel Concrete cutter Electric motor Vibration motor Turn table (Chassis) Vibratory Screed	12 (twelve) months under normal operation from the date of shipment from Korea, or 320 (three hundred twenty) days from the date of sale(or purchase) to the 3rd party, which ever comes first.	
Engine	Refer to engine manual	