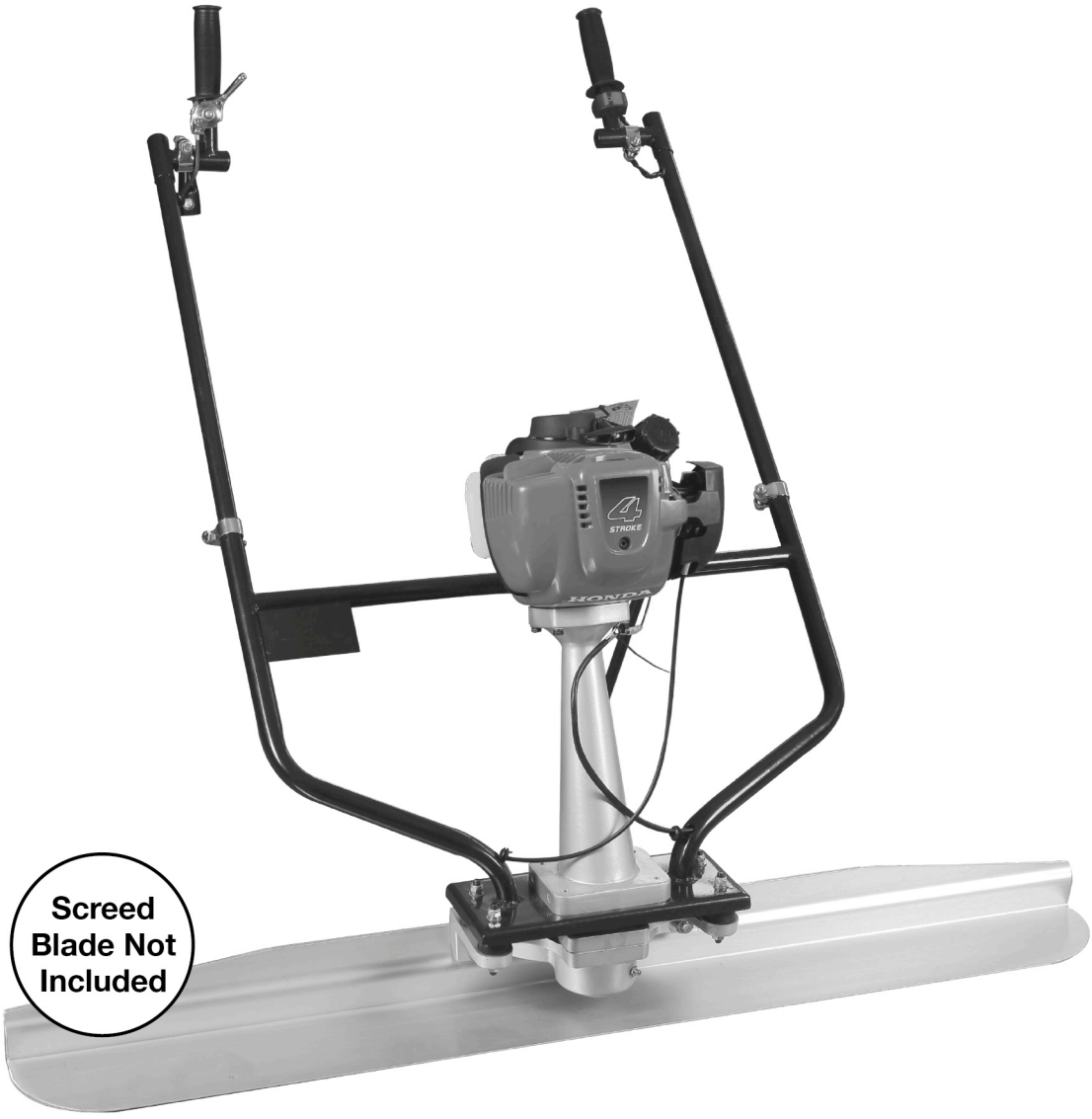
594514
POWER SCREED

TOOLEX® Industrial



Screed Blade Not Included

INSTRUCTION MANUAL

CONSUMER SERVICE CENTRE
PO BOX 1012
HAMILTON NSW 2303 AUSTRALIA
Made in P.R.C.

I. Applications

Compaction of concrete slabs

Precast sections

Roadways

Warehouse floors

II. Introduction

General Safety Instructions for the Operation of Power Equipment The most important safety device for This or any tool is the operator. Care and good judgment are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important items, individuals should look for and obey caution, warning and danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it.

Get the “feel” of it and know its capabilities, limitations, potential hazard, how it operates, and how it stops.

III. Specifications

Model	594514
Size	1200*800*500mm
Blade size	1200mm-4800mm optional
Engine	Air-cooled,4-cycle
Engine Type	Petrol, Honda GX35
Power kw	1.0
Weight kg	15kg
Frequency(1/min)	3600

IV. Safety information

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.

1. Mechanical hazards

* DONOT 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 motor operation switch is in the OFF position and the spark plug ignition lead is Disconnected before removing the guards or making adjustments.

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

* 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.
* BE CAREFULL not to come in contact with the muffler when the engine is hot, since it can cause severe burns.
* ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

2. Fire & explosion hazards

* PETROL is extremely flammable and explosive under certain conditions.
* ENSURE that petrol is only stored in an approved storage container.
* DO NOT refuel the motor while it is in operation or hot.
* DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.
* DO NOT over fill the fuel tank and avoid spilling petrol when refueling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.
* ENSURE that the fuel tank cap is securely fitted after refueling.

3. Chemical hazard

* DO NOT operate or refuel a petrol motor in a confined area without adequate ventilation.
* CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

4. 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.

5. Protective clothing

* ALWAYS wear protective clothing and footwear to prevent the skin coming into contact with wet concrete.
* PROTECTIVE FOOTWARE should be worn to reduce injuries from penetration through the sole, contact with cutting objects, slipping, contact with wet concrete and electrical hazards.
* GOGGLES for eye protection may also be necessary.
* USE waterproof protection for hands and knees (if kneeling) when concreting .If your clothing becomes
* Wet from concrete contact make sure you change the clothing. Do not walk about waiting for it to dry.

6. Additional hazards

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

V. Operation

Using the vibrating-beam screed

Once the concrete, with its surcharge, has been spread, start the motor and manually pull the beam along the slab. Make sure that there is always a continuous surcharge along the entire length of the leading edge. Generally one steady pass with the screed should be enough to compact and level the concrete.

Vibration of the concrete is still necessary to bring air bubbles to the surface.

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

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

VI. Maintenance and storage

1. Care and preventive maintenance

Inspect the rubber and vibration mounts for wearing or deterioration.

Clean the aluminum beams regularly to prevent a build up of concrete residue.

2. Service

The housing weight must be greased after every 10 hours of operation. DO not over grease.

Inspect, clean and /or replace the motor 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 subject to vibration.

To test run the screed support the beams on a resilient support at each end.(eg.use two car tyres.)

3. Cleaning and Storage

Keep the unit clean and free of concrete residue.

Ensure the cooling fins on the motor are kept unobstructed.

VII. Malfunction list

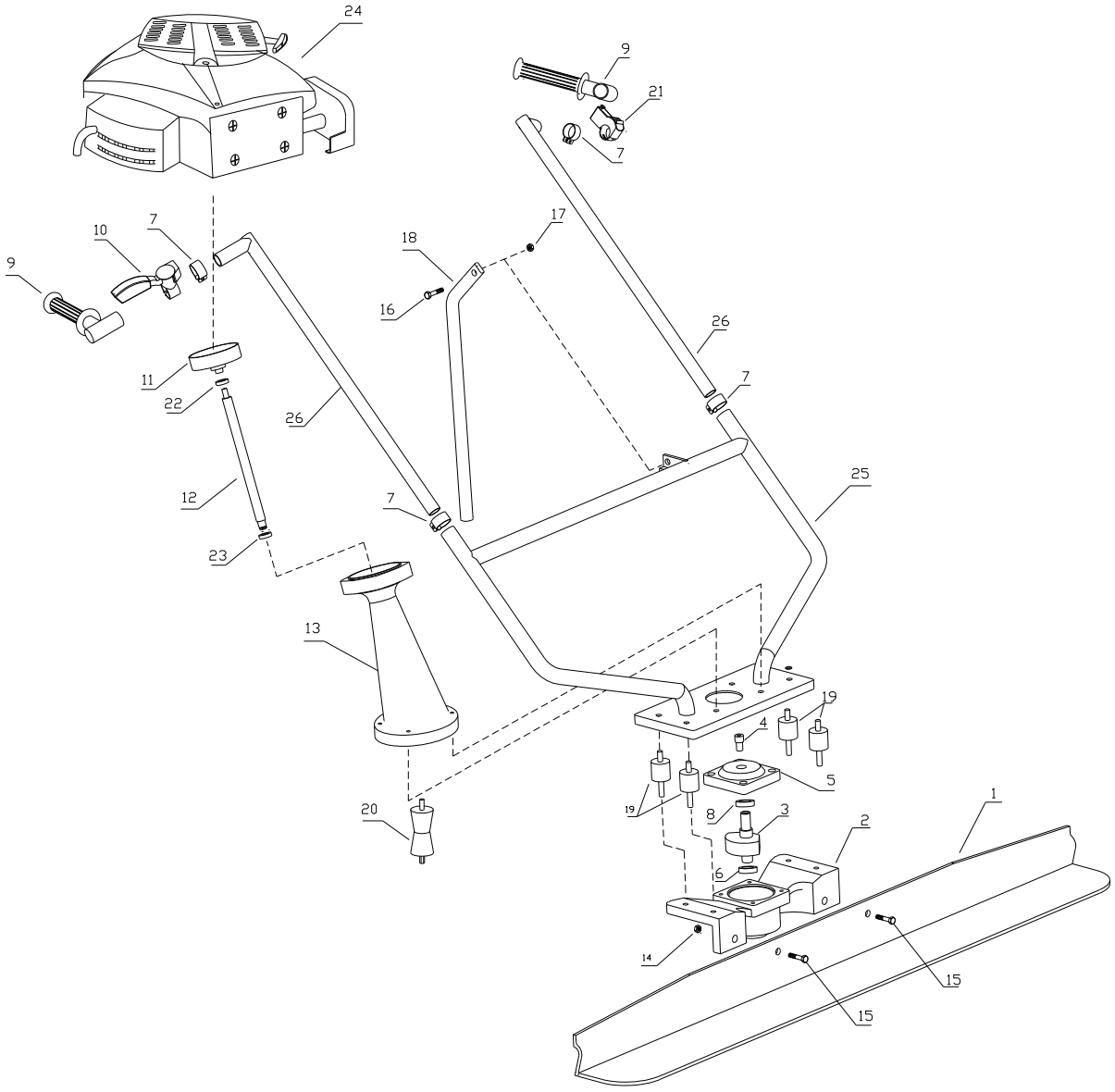
SYMPTOM	POSSIBLE CAUSE	SOLUTION
Vibrates insufficient and as a result the concrete floor can not be leveled and smoothed in the proper way.	The centrifugal force of the vibrator is set too low?	Adjust the eccentric weights or increase engine speed.
	There is Excessive amounts of concrete along the leading edge of the blades?	Remove the excessive concrete from the blade.
	The chosen width of the blades is too large?	Work with a smaller blade remember maximum width is 20ft.(2 engines)
Screed when used as a form-to-form screed vibrates too much and does not travel smoothly across the rail supports.	Selected blade and eccentric weights do not match?	Adjust eccentric weights to match selected blade width.
Concrete looks “WAVY” as the screed blade passes over it.	Operator moving too slowly	Walk backwards at a faster pace.
	Too much vibration for the type of concrete	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.
Difficult to start,"fuel is available, but no SPARK at spark plug".	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn
	Improper spark plug gap	Set to proper gap.
Difficult to start, "fuel is available, and SPARK is present at the spark plug".	On/OFF switch is shorted?	Check switch wiring, replace switch
	Ignition coil defective?	Replace ignition coil
	Improper spark gap, points dirty?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, "fuel is available, spark is present and compression is normal"	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel
	Water or dust in fuel system?	Flush fuel system
	Air cleaner dirty?	Clean or replace air cleaner.
	Choke open?	Close Choke
Difficult to start, "fuel is available, spark is present and compression is low"	Suction/exhaust valve stuck or protruded?	Reseat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and or piston.
	Cylinder head and/or spark plug gasket damaged?	Torque cylinder head bolts and spark plug
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present inside priming bulb	Fuel not available in fuel tank?	Fill with correct type of fuel.
	Fuel filter clogged?	Replace fuel filter
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap
	Air in fuel line?	Bleed fuel line

VIII. Parts list

1. Finishing screed drawing

HGZ12



Finishing screed spare part name

No.	Parts No.	Name	Qty	Remarks
1	10001	Blade	1	
2	10002	Vibrating Box	1	
3	10003	Eccentric Shaft	1	
4	10004	Linkage nut	1	
5	10005	Cover of Gearbox	1	
6	10006	Bearing	1	
7	10007	Lock	4	
8	10008	Bearing	1	
9	10009	Grip Handle	2	
10	10010	Throttle Control lever	1	
11	10011	Shell of Clutch	1	
12	10012	Connecting Shaft	1	
13	10013	Connecting housing	1	
14	10014	Screw	2	
15	10015	Bolts	2	
16	10016	Bolts	1	
17	10017	Screw	1	
18	10018	Support Shaft	1	
19	10019	Shock Mount	4	
20	10020	Connecting Flex Shaft	1	
21	10021	Flameout switch	1	
22	10022	Bearing	1	
23	10023	Bearing	1	
24	10024	Engine	1	
25	10025	V-Frame	1	
26	10026	Upper Handle	2	