OPERATOR/SERVICE MANUAL

MODELS: XH670, XH730, XH840

STOMPER®: 4-Cycle

A 100% employee-owned American manufacturer

REVISION: E 01/2005 P/N 56642

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Stomper®

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Foreword / Warranty Information

These instructions include:

Safety regulations
Operating instructions
Maintenance instructions

These instructions have been prepared for operation on the construction site and for the maintenance engineer.

These instructions are intended to simplify operation of the machine and to avoid malfunctions through improper operation.

Observing the maintenance instructions will increase the reliability and service life of the machine when used on the construction site and reduce repair costs and downtimes.

Always keep these instructions at the place of use of the machine.

Only operate the machine as instructed and follow these instructions.

Observe the safety regulations as well as the guidelines of the civil engineering trade association. Observe the safety rules for the operation of road rollers and compactors and the pertinent regulations for the prevention of accidents.

Stone Construction Equipment, Inc. is not liable for the function of the machine when used in an improper manner and for other than the intended purpose.

Operating errors, improper maintenance and the use of incorrect operating materials are not covered by the warranty.

The above information does not extend the warranty and liability conditions of business of Stone Construction Equipment, Inc.

Warranty Information

Please enter the following data. This will help expedite any service or warranty work.

1. Machine Type: _____

   Machine S/N: _____

2. Engine Type: _____

   Engine S/N: _____

3. VIN: _____

4. Purchase Date: _____

5. Dealer/Distributor Information:

   Name: _____

   Address: _____

   _____

   Phone #: _____

   Fax #: _____

6. Battery
   Manufacturer: _____

   Battery Type: _____

   Battery S/N: _____

Location of above information:

1. Information on S/N tag.
2. Information on engine tag.
3. Information on S/N tag - if applicable.
4. Date you purchased machine.
5. Dealer machine was purchased from.
6. Information on battery and battery warranty card.

Stone Construction Equipment, Inc.
P.O. Box 150, Honeoye, New York 14471
Phone: (800) 888-9926
Fax: (585) 229-2363

Limited Warranty

The Manufacturer warrants that products manufactured shall be free from defects in material and workmanship that develop under normal use for a period of 90 days for concrete vibrators and electric pumps, one year for Rhino®, Bulldog®, WolfPac Rollers™, trowels, Stompers®, saws, forward plates, engine powered pumps, Lift Jockey™, Mortar Buggy™ and 6 months for all other products from the date of shipment. The foregoing shall be the exclusive remedy of the buyer and the exclusive liability of the Manufacturer. Our warranty excludes normal replaceable wear items, i.e. gaskets, wear plates, seals, O-rings, V-belts, drive chains, clutches, etc. Any equipment, part or product which is furnished by the Manufacturer but manufactured by another, bears only the warranty given by such other manufacturer. (The Manufacturer extends the warranty period to "Lifetime" for the drum bearings and seals for the mortar mixers, and agrees to furnish, free of charge, the bearings and seals only upon receipt of the defective parts. The warranty is two years for eccentric bearings on the forward plate compactors, mortar and plaster mixer drums, trowel gearboxes, three years on the Bulldog trench roller microprocessor (ECIB) and five years on the Bulldog trench roller eccentric bearings.) A Warranty Evaluation Form must accompany all defective parts. Warranty is voided by product abuse, alterations, and use of equipment in applications for which it was not intended, use of non-manufacturer parts, or failure to follow documented service instructions. The foregoing warranty is exclusive of all other warranties whether written or oral, expressed or implied. No warranty of merchantability or fitness for a particular purpose shall apply. The agents, dealer and employees of Manufacturer are not authorized to make modification to this warranty, or additional warranties binding on Manufacturer. Therefore, additional statements, whether oral or written, do not constitute warranty and should not be relied upon.

The Manufacturer's sole responsibility for any breach of the foregoing provision of this contract, with respect to any product or part not conforming to the Warranty or the description herein contained, is at its option (a) to repair, replace or refund such product or parts upon the prepaid return thereof to location designated specifically by the Manufacturer. Product returns not shipped prepaid or on an economical transportation basis will be refused (b) as an alternative to the foregoing modes of settlement - the Manufacturer's dealer to repair defective units with reimbursement for expenses, except labor, and be reviewed with the Manufacturer prior to repair. A Warranty Evaluation Form must accompany all warranty claims.

Except as set forth hereinabove and without limitation of the above, there are no warranties or other affirmations which extends beyond the description of the products and the fact hereof, or as to operational efficiency, product reliability or maintainability or compatibility with products furnished by others. In no event whether as a result of breach of contract or warranty or alleged negligence, shall the Manufacturer be liable for special or consequential damages including but not limited to: Loss of profits or revenues, loss of use of the product or any associated product, cost of capital, cost of substitute products, facilities or services or claims of customers.

No claim will be allowed for products lost or damaged in transit. Such claims should be filed with the carrier within fifteen days.

Effective January 2004.

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www.stone-equip.com • e-mail: sceny@stone-equip.com

P/N 51018 G-7524 01/2004

1. TECHNICAL DATA

1. Technical Data

1.1 Specifications

STONE STOMPERS			
MODEL	STONE XH670	STONE XH730	STONE XH840
Dimensions			
Weight (kg)	132 lbs. (60)	144 lbs. (65)	154 lbs. (70)
Dimensions L x W x H (cm)	30.6" x 13.5" x 42" (77,72x34,29x106,68)	29.7" x 14.9" x 42" (75,44x37,85x106,68)	33.8" x 16.4" x 44" (85,85x41,66x111,76)
Shoe Size (cm)	10" x 13" (25,40 x 33,02)	11" x 13" (27,94 x 33,02)	11" x 13" (27,94 x 33,02)
Operating System			
Power (kW)	3 hp Honda (2,24)	3 hp Honda (2,24)	4 hp Honda (2,98)
Engine Specs	GX100	GX100	GX120
Engine RPM (hz)	4000 (67)	3700 (62)	3600 (60)
Fuel Capacity (l)	3 qts. (2,8)	3 qts. (2,8)	3 qts. (2,8)
Fuel Tank Material	Polyethylene	Polyethylene	Polyethylene
Performance			
Impact Force (kg)	2650 lbs. (1205)	3100 lbs. (1409)	3500 lbs. (1591)
Max. Blows/Min. (hz)	727 (12)	690 (12)	655 (11)
Max. Forward Travel Speed (m/min)	60' - 70' / Min. (18,3 - 21,3)	60' - 70' / Min. (18,3 - 21,3)	60' - 70' / Min. (18,3 - 21,3)
Max. Productivity (sq.m/hr)	3500 Sq. Ft./Hr. (325)	3575 Sq. Ft./Hr. (332)	3575 Sq. Ft./Hr. (332)
Max. Lift (cm)	22"- 25" (55,9-63,5)	22"- 25"(55,9-63,5)	22"- 25"(55,9-63,5)
Max. Amplitude (cm)	2.5" (6,4)	Up to 3" (7,6)	Up to 4" (10,2)
Options	Extension, Handle Roller	Extension, Handle Roller	Extension, Handle Roller

1.2 ENGINE SPECIFICATIONS

Engine Model	GX100	GX120
Engine Make	Honda	Honda
Engine Type	4-Stroke, Single-Cylinder	4-Stroke, Single-Cylinder
Power (kW)	3HP (2.24)	4HP (2.98)
Ignition System	Transistorized Magneto	Transistorized Magneto
Fuel Type	Unleaded Gasoline 86 octane or higher	Unleaded Gasoline 86 octane or higher
Fuel Consumption (g/kWh)	.54 lb./hp-hr (327)	.51 lb./hp-hr (310)
Spark Plug	CR5HSB	BPRGES
Spark Plug Gap (mm)	.024 - .028 in. (.60 - .70)	.028 - .031 in. (.70 - .80)
Idle Speed (Hz)	1,850 RPM (31)	1,500 RPM (25)

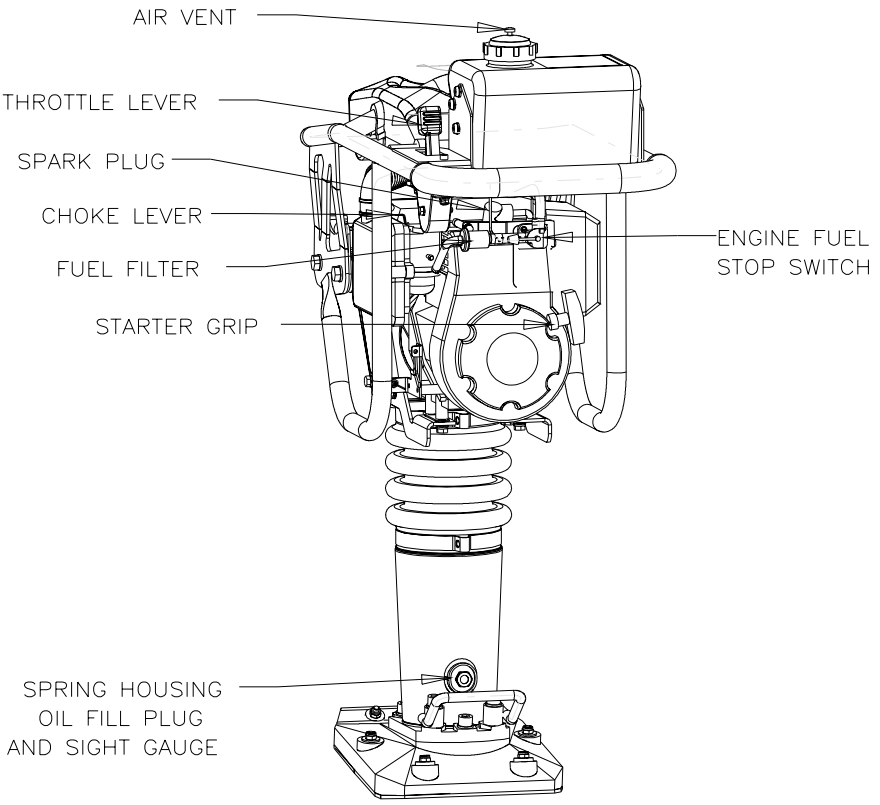
1.3 LUBRICATION SPECIFICATIONS

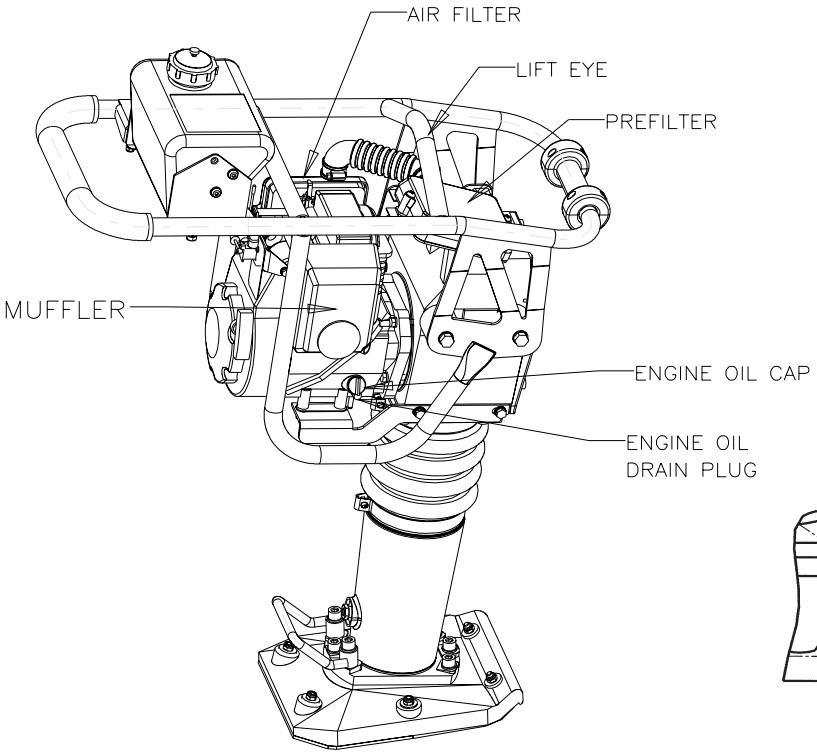
	GX100	GX120
Engine Crankcase (liter)	Mobil Delvac 1200 10W30 .30 qt. (.28)	Mobil Delvac 1200 10W30 .37 qt. (.40)
Spring Housing (liter)	Mobil Delvac 1230 10W30 .50 qt. (.47)	

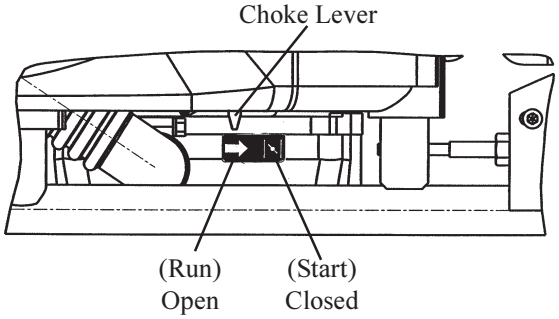
1.4 MACHINE SOUND LEVEL TEST

Sound Level Meter Calibration Date:	March 31, 2004		
Meter Type:	Simpson Model 886-2 Type 2		
Test Date:	March 31, 2004		
Test Conditions:	52° F (11° C)		
Temperature:	53 dba Fast mode		
Ambient Sound:	Top soil		
Moisture Limit:	Approximately equal to 50%		
Test Site:	Honeoye, New York USA		
Machine Type:	XH670	XH730	XH840
Engine Speed:	4000	3700	3600
Frequency:	727	673	654
Sound Level at Operator Position:	86 dba	94 dba	102 dba

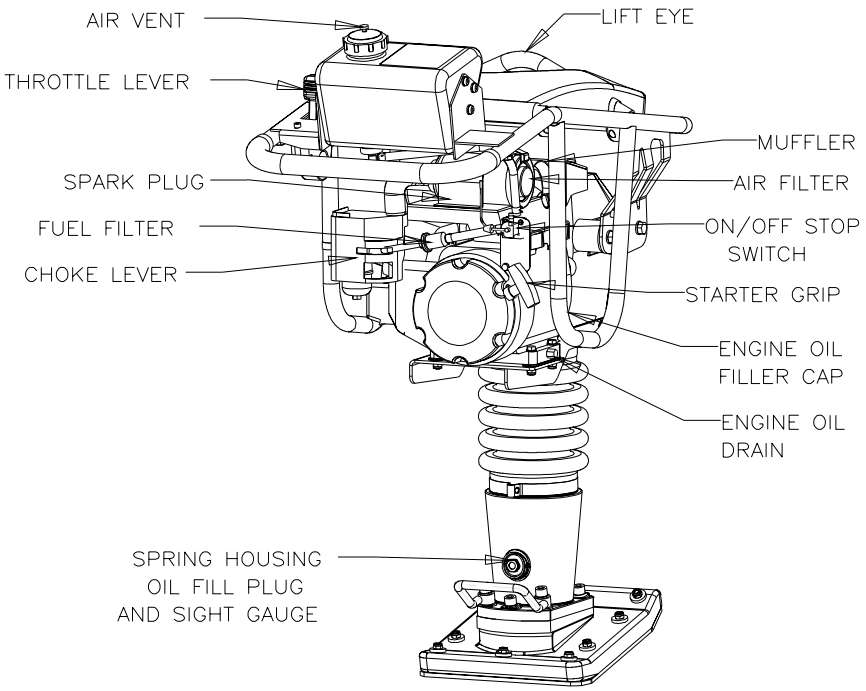
1.5 COMPONENTS & CONTROLS XH670, XH730

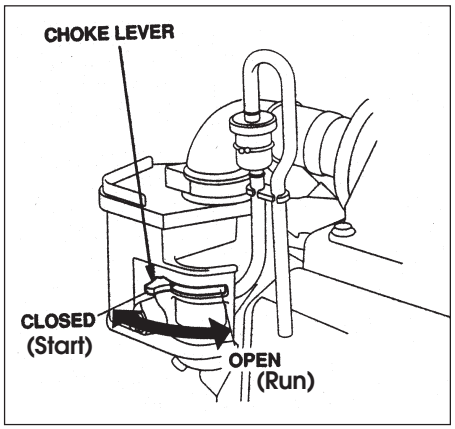




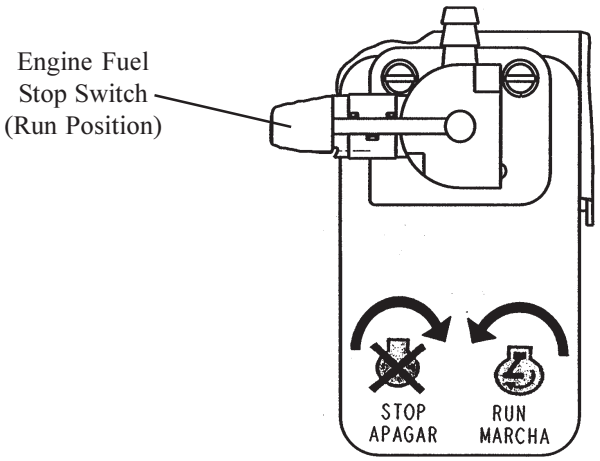


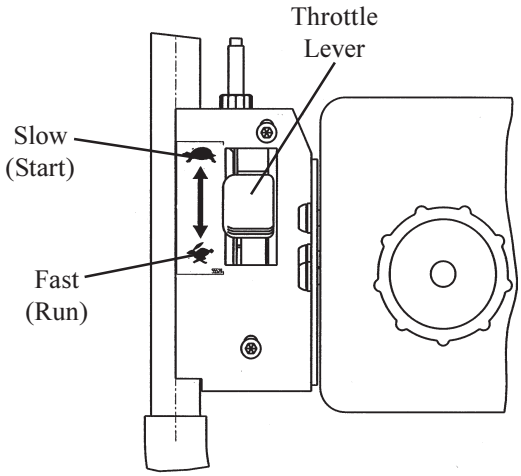
1.6 COMPONENTS & CONTROLS XH840





1.7 COMPONENTS & CONTROLS XH670, XH730, XH840





2. HEALTH & SAFETY

SAFETY USE

These machines are designed to carry out the function of compacting material of the non-cohesive, bituminous and granular varieties.

If used correctly they will provide an effective and safe means of compaction and meet the appropriate performance standards.

It is essential that the driver/operator of the machine is adequately trained in its safe operation, be authorized to drive it, and have sufficient knowledge of the machine to ensure that it is in full working order, before being put to use.

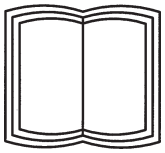
2. Health & Safety

Before using this equipment, study this entire manual to become familiar with its operation. Do not allow untrained or unauthorized personnel, especially children, to operate this equipment. Use only factory authorized parts for service.

When warning decals are destroyed or missing, contact the Manufacturer immediately at 1-800-888-9926 for replacement. For the safety of yourself and others, it is imperative that the following rules are observed. Failure to do so may result in serious injury or death.

FOLLOW SAFETY INSTRUCTIONS

- Carefully read all safety messages and decals in this manual and on your machine safety signs. Keep decals in good condition. Replace missing or damaged decals. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs and decals are available through your dealer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.
- If you do not understand any part of this manual and need assistance, contact your dealer.



- Read Operator/Service Manual before operating.

UNDERSTAND SIGNAL WORDS

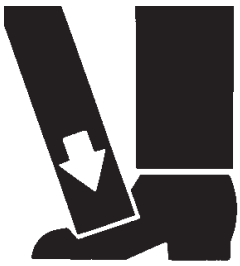
⚠ DANGER

⚠ WARNING

⚠ CAUTION

- A signal word – DANGER, WARNING, or CAUTION – is used with the safety-alert symbol. DANGER identifies the most serious hazards.
- DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

- This notation appears before warnings in the text. It means that the step which follows must be carried out to avoid the possibility of personal injury or death. These warnings are intended to help the technician avoid any potential hazards encountered in the normal service procedures. We strongly recommend that the reader takes advantage of the information provided to prevent personal injury or injury to others.
- Follow safety alert symbols and warnings.



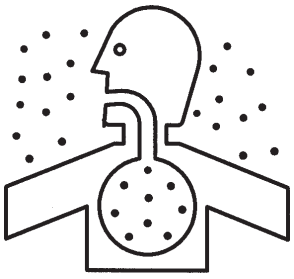
- Keep feet clear of the machine's shoe at all times.
- Be sure no one is in a position to be hit by operator's hand or arm during starting.
- Do not leave the machine running unattended.
- Keep work area free of bystanders.
- Do not operate this machine on any surface where it can get out of control.

- Open flame, fire and smoking prohibited.

USE COMMON SENSE WHEN HANDLING FUELS

- Transport and handle fuel only when contained in approved safety container.
- Do not smoke when refueling or during any other fuel handling operation.
- Do not refuel while the engine is running or while it is still hot.
- If fuel is spilled during refueling, wipe it off from the engine immediately and discard the rag in a safe place.
- Do not operate the equipment if fuel or oil leaks exist - repair immediately.
- Never operate this equipment in an explosive atmosphere.

- Stop engine before refueling.

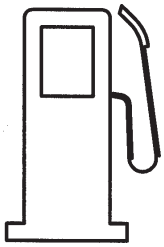


- DO NOT operate in an unventilated area.
- Never operate any gas-powered equipment in a poorly ventilated area or enclosed area.
- Avoid prolonged breathing of exhaust gases.

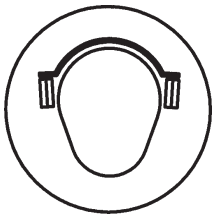
- Never perform any work on this equipment while it is running.
- Always stop the engine and disconnect the spark plug wire to prevent accidental starting.
- Keep hands, clothing, and jewelry away from all moving parts.
- Make sure all safety guards are secured and in proper position.

HOT SURFACES

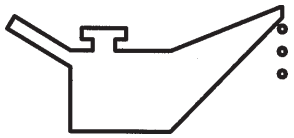
- Avoid contact with hot exhaust systems and engines.
- Allow engine to cool before performing any repairs or service



- Use unleaded gasoline, octane rating of 86 or higher.

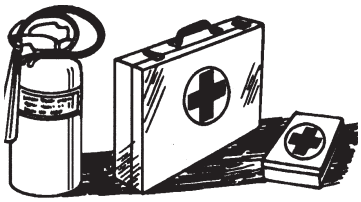


- Ear protection required when operating this equipment.
- Exposure to loud noise can cause impairment or loss of hearing.



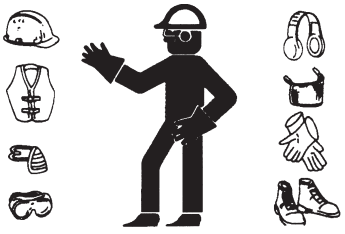
- Check the engine oil level before starting.

PREPARE FOR EMERGENCIES



- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

WEAR PROTECTIVE CLOTHING



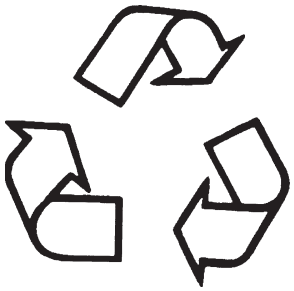
- Wear close fitting clothing and safety equipment appropriate to the job.
- Prolonged exposure to loud noise can cause impairment or loss of hearing.
- Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.
- Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

- Starting fluid (ether) is highly flammable, do not use or an explosion or fire may result.

PRACTICE SAFE MAINTENANCE

- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.
- Securely support any machine elements that must be raised for service work.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

DISPOSE OF WASTE PROPERLY



- Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.
- Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.
- Do not pour waste onto the ground, down a drain, or into any water source.
- Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.
- Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center.

3. OPERATION

3. Operation

3.1 INTRODUCTION

Congratulations on your purchase of a Stone Stomper! You've made an excellent choice!

Three models of 4-cycle rammers deliver maximum impact force, yet are light-weight, smooth running and easy to operate. Stompers are powered by 4-cycle Honda engines that have been designed to take a beating and meet the toughest EPA standards.

Stone Stompers unique design combines precise spring force, crank throw and weight to produce maximum impact force. Plus, exclusive operator-friendly features and superior balance make Stone Stompers effortless to operate.

Comfort and Control

A unique, state-of-the-art snap-on, contoured cover reduces noise and protects the engine yet allows easy access for servicing. A heavy-duty ergonomic throttle puts more comfortable control at your finger tips for easy operation.

We've reduced operator fatigue with an extra-padded hand grip and superior rubber shock mountings.

Their lighter weight makes them perfect for easy transport, with the added convenience of heavy-duty lifting handles and optional transport wheels.

Precision Built to Last

Stompers are built to last with precision components. Everywhere there's durability: forged steel crank and rod, quadruple fuel filtration, heavy-duty throttle, solid snubbers, self-aligning centrifugal clutch and a high-volume, two-stage air cleaner. Stompers are equipped with a convenient fuel shut off valve to quickly and easily shut the fuel flow to the engine.

Modular Design

This exclusive, innovative, high-tech design totally revolutionizes rammer servicing. The top and bottom modules detach from the boot in minutes, cutting service time virtually in half. Each module can be serviced independently without total machine disassembly. Over the long-term, this exclusive feature cuts service costs and lowers lifetime costs.

Muscle out the competition with Stone Stompers.

3.2 DELIVERY INSPECTION

Upon receipt of your Stomper, CAREFULLY CHECK FOR ANY FREIGHT DAMAGE. Any damage should be immediately reported to the carrier and a claim registered.

Stone Stompers are manufactured to the strictest specifications and inspection procedures. If any material or manufacturing defects are found, return the tag on the machine with the assembler's signature and your findings to the manufacturer. We want to know when a product is less than perfect. We also welcome any and all input on how the product may serve you better.

The following instructions were compiled to provide you information on how to obtain long and trouble-free use of the unit. Periodic maintenance of this unit is essential. Read the manual in its entirety and follow the instructions carefully. Failure to do so may injure yourself or a bystander.

3.3 OPERATING PRINCIPLE

A tamping shoe is mounted at the lower end of a cylindrical spring housing. A piston, installed between massive opposing springs inside the spring housing, is actuated by a connecting rod and crank system, which is driven by a high speed 4-cycle gasoline engine through a gear train and centrifugal clutch. The piston alternately loads and unloads the springs. This results in a rapid lifting up and ramming down action of the tamping shoe to compact the underlying material.

The Stomper is effective for compaction of a wide variety of job soil substances, particularly clay lumps, silt, loam and all granular materials. Although relatively light in weight and easy to operate, the Stomper delivers a tremendous impact to the soil.

3. Operation

These instructions contain information to guide you in efficient use and proper maintenance of the Stomper. To get long and trouble-free service from this power tool, periodic maintenance of the engine and machine is essential.

The Stomper is shipped completely assembled and only requires filling with 4-cycle motor oil and regular unleaded gasoline as well as a brief check of lubricant levels in preparation for operation. You should first study these instructions.

3.4 MACHINE CONFIGURATION DESCRIPTION

4-cycle Stone Stompers are supplied in three models:

XH670 - Light
XH730 - Medium
XH840 - Heavy

3.5 BEFORE STARTING

Review the following information. Specific information regarding these items can be found in the Technical Data Section or located from the Table of Contents.

3.5.1 Warnings

Fuel is highly flammable, handle with care. Do not refuel the engine while smoking or when near an open flame or sparks. Always stop engine before refueling. Clean up spilled fuel before starting. Avoid fires by keeping engine clean of accumulated grease and debris.

Do not run unit in enclosed, unventilated areas. Avoid prolonged breathing of exhaust gases.

3.5.2 Pre-Start Checklist

- Check engine oil level.
- Check air filter elements.
- Check spring housing oil level.
- Check fuel level.

3.6 TO START MACHINE

- Read Operator Manual before operating machine.
- Open air vent on gas tank by turning counterclockwise.
- Turn engine fuel stop switch to “run” position.
- Set choke to “close” position. Note: A warm engine may not require choke.
- Set throttle lever to “slow” position.
- Pull the starter grip briskly once or twice to start the engine, continue to pull as necessary to start.
- When engine starts, let the engine run at idle to warm up then return choke to “open” position.
- Move throttle to “fast” position for operation.

3.7 TO STOP MACHINE

- Move throttle lever to “slow”, allow engine to idle before stopping.
- To stop the engine, turn the engine fuel stop switch to “stop” position.

3.8 OPERATION OF MACHINE

⚠WARNING

WHEN OPERATING THE STOMPER, KEEP FEET CLEAR FROM THE RAMMING SHOE. SERIOUS PERSONAL INJURY MAY OCCUR. WHEN OPERATING THE STOMPER, HEARING PROTECTION SHOULD BE WORN. HEARING LOSS MAY RESULT FROM PROLONGED EXPOSURE TO NOISE.

CAUTION: Never operate on hard, unyielding surfaces. Unwarranteed damage may result.

CAUTION: Always use both hands when operating this machine. This will ensure safe machine operation.

3. Operation

- In operation, guide the machine but let the machine do the work. Bearing down on the handle unnecessary and limits the shoe jump.

- On nearly level surfaces, the machine moves forward in rapid jumps. On uneven surfaces or inclines, rocking the handle slightly may assist the Stomper in moving forward.

- Always guide the Stomper so that the whole shoe, and not just the front or back edge, does the impacting.

- As the soil becomes compacted, the jump height of the Stomper will increase.

- After a brief experience, you will know how to adapt the technique to the job conditions.

4. MAINTENANCE

4.1 IMPORTANT

The person attempting *any* of the following maintenance tasks must be authorized to do so and have read *and* understood *all* sections within this manual.

4.2 INTRODUCTION

The following instructions were compiled to provide you information on how to obtain long and trouble-free use of the unit. Periodic maintenance of this unit is essential. Read the Operator/Service Manual in its entirety and follow the Health & Safety Precautions carefully. Failure to do so may injure yourself, a bystander or the environment.

4.3 HONDA ENGINE MANUALS

Read and understand the Honda Engine Owner's Manual (provided with the Stone Stomper) prior to operation and service.

- 56649 Manual Owner's Honda GX100
- 56650 Manual Owner's Honda GX120

For more detailed service information, see the Honda Engine Shop manual (not provided).

- 56651 Manual Shop Honda GX100
- 56652 Manual Supplement Honda GX100
- 56660 Manual Shop Honda GX120
- 56661 Manual Supplement Honda GX120

4.4 ENGINE OIL

Check engine oil level daily before operation. Change after the first 20 hours, then every 100 hours (see Technical Data Section for lubrication specifications).

Check engine oil level with the machine on a level surface with the engine stopped.

NOTICE: Running the engine with a low oil level can cause engine damage.

4.5 ENGINE PREFILTER AND AIR FILTER

Replace elements every 100 hours, more frequently in dusty conditions.

4.5.1 XH670 & XH730

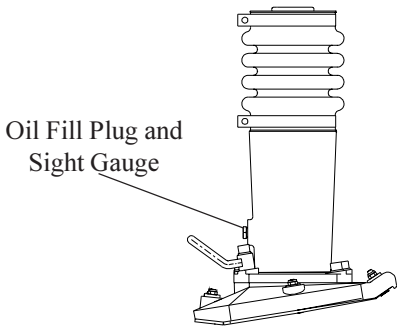
Clean prefilter on top and air filter on side of engine. Wash foam element with detergent and water. Dry the element by squeezing between towels. Tap paper element on a hard surface to remove dirt. Do not oil elements.

4.5.2 XH840

Wash foam element with detergent and water. Dry the element by squeezing between towels. Apply clean engine oil to foam element and squeeze out excess oil. Tap paper element on a hard surface to remove dirt.

4.6 SPRING HOUSING OIL

Check daily before operation. Change after the first 20 hours, then every 300 hours (see Technical Data Section for lubrication specifications).



1. With unit standing upright (in vertical position, not operating) so that the oil drains freely into the spring housing, check that the oil is at fill sight plug level.

2. Whenever the level is low, remove the fill sight plug and refill until oil runs out of sight plug hole, replace sight plug. Check that oil is at sight plug level.

NOTE: Use of a socket wrench is recommended to avoid damage to the sight gauge.

4.7 FUEL TANK AND STRAINER

Check fuel level daily before operation. Clean tank and strainer every 100 hours, replace if damaged (see Technical Data Section for fuel specifications). Drain and flush the fuel tank yearly.

4.8 FUEL FILTER

Check every 100 hours. Replace if water or dirt sediment is found or replace yearly.

4.9 FUEL LINES

Inspect fuel line and clamps weekly. Replace if damaged or replace every 2 years.

4.10 SPARK PLUGS

Check/clean every 100 hours. Replace if damaged or replace yearly. (See Technical Data Section for engine specifications for spark plug and gap).

4.11 ENGINE RPM

Check/adjust every 100 hours (see Technical Data Section for machine specifications).

NOTICE: The engine RPM setting should not be modified or severe engine or machine damage may occur.

4.12 AIR COOLING SYSTEM

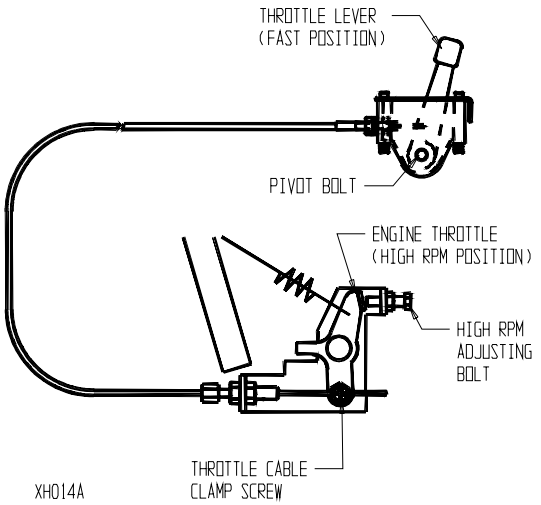
Clean machine daily. The recoil starter screen and the engine cooling fins should be free of debris to allow proper cooling for the engine.

4.13 VALVE CLEARANCE AND COMBUSTION CHAMBER

These items should be service by your servicing dealer after 300 hours unless you have the proper tools and are mechanically proficient. Refer to Honda shop manual for service procedures.

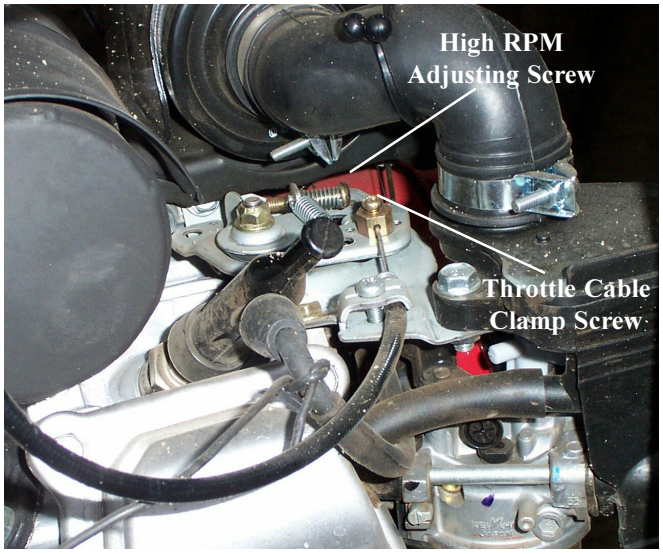
4.14 THROTTLE CONTROL CABLE ADJUSTMENT XH670, XH730 (Honda GX100)

1. Loosen the throttle clamp screw and the lock nut on the high RPM adjusting bolt.
2. To increase engine RPM turn the high RPM adjusting screw counterclockwise. To decrease engine RPM turn the high RPM adjusting screw clockwise.
3. Move the throttle lever to the fast position, rotate and hold the engine throttle against the high RPM adjusting bolt and tighten the throttle cable clamp screw.
4. Run machine and check engine RPM (see Technical Data Section for specified RPM).



4.15 THROTTLE CONTROL CABLE ADJUSTMENT XH840 (Honda GX120)

1. Loosen the throttle clamp screw.
2. To increase engine RPM turn the high RPM adjusting screw counterclockwise. To decrease engine RPM turn the high RPM adjusting screw clockwise.
3. Move the throttle lever to the fast position, rotate and hold the engine throttle against the high RPM adjusting bolt and tighten the throttle cable clamp screw.
4. Run machine and check engine RPM (see Technical Data Section for specified RPM).

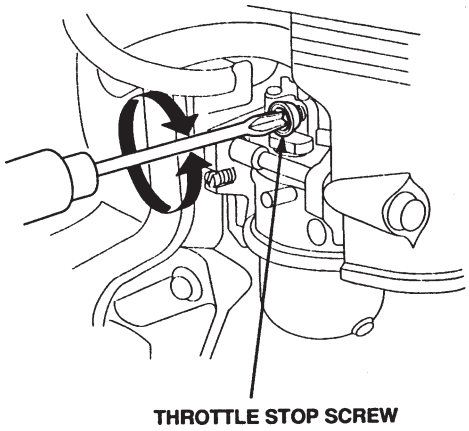


4.16 THROTTLE LEVER ADJUSTMENT

Retighten pivot bolt tight enough as to not allow throttle lever to move forward when machine is operating.

4.17 IDLE SETTING

If the engine idles smoothly but at too high RPM, turn the idle stop screw counterclockwise a little at a time until the desired specification is obtained. To increase the speed, turn the idle stop screw slowly clockwise until the desired RPM is obtained (see Technical Data Section for specified RPM). The idle stop screw is the black screw located behind the air cleaner base plate.

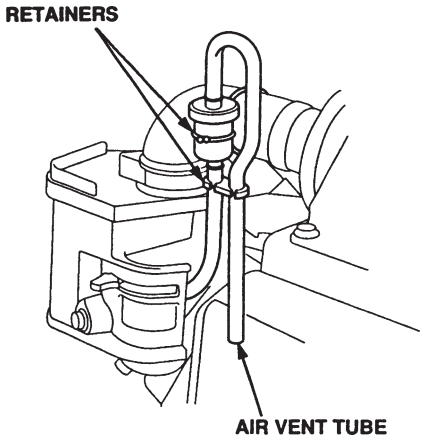


Start the engine and allow it to warm up to normal operating temperature.

With the engine idling, turn the throttle stop screw to obtain the standard idle speed.

4.18 AIR VENT TUBE INSPECTION (XH840 Only)

Check that the air vent tube is secured by the tube retainers without collapsing or kinking.



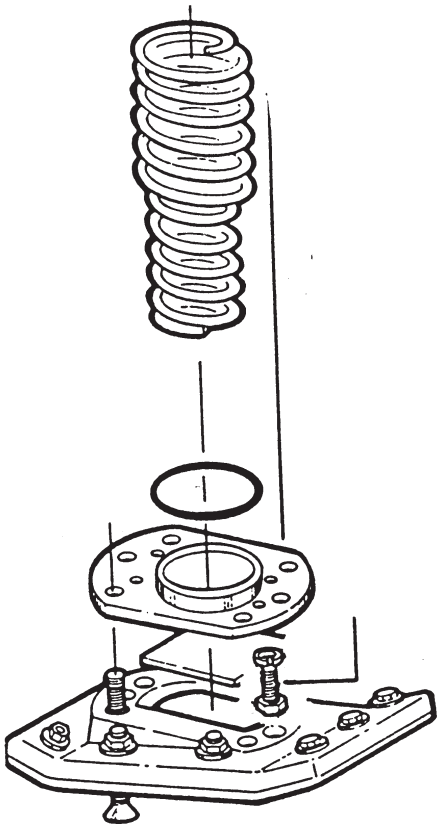
4.19 FASTENERS

Check all nuts and bolts after 4 hours, then every day of operation. Torque values for fasteners are found in the appropriate part drawings located in the back section of this manual

4.20 BASE PLATE REMOVAL

⚠WARNING The spring retaining Base Plate retains heavy springs under compression. Follow the instructions carefully or severe personal injury may occur.

Detach shoe by removing six (6) shoe bolts and washers. Assemble two (2) threaded bolts, two (2) washers from bottom two corner bolt holes, fully thread two (2) nuts with two (2) washers from opposite side. WITH CAUTION, remove the four (4) sock head cap screws and then alternately back off the two thread rods approximately 1/2 inch at a time until all the spring tension is removed, then remove the threaded bolts and base plate to access springs.



ITEM	P/N	DESCRIPTION	QUANTITY
Kit	23011 (includes all)	Tool Kit, Base Plate Removal	1
1	43150	Full Thread Bolt M12 x 8"	2
2	80896	NUTFX M12	2
3	80807	WSHR M12 x 2400	4
4	56230	Instructions Base Plate Removal	1

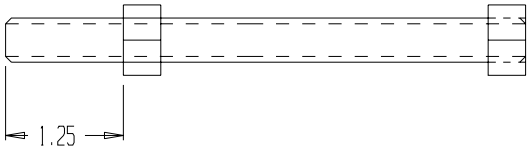
4.21 LOWER UNIT DISASSEMBLY

⚠WARNING The spring retaining Base Plate retains heavy springs under compression. Follow the instructions carefully or severe personal injury may occur.

1. Detach the shoe from the Stomper by removing (6) shoe bolts and washers.
2. Thread M8 nuts onto (2) full thread M8 x 5.50" bolts (provided in kit) 1.25" up from the bottom of the bolts (see Figure A).
3. Replace two bolts that are diagonal from each other on the bottom spring cover with assembled full thread bolts with nuts from Step 2. Make sure to thread the assembled bolts in a full 1.25" (see Figure B).
4. Remove the other (4) bolts from the bottom spring cover (leaving the full thread bolts in place).
5. Carefully back each nut off a .25" at a time on each side using two wrenches (one to hold the bolt in place and the other to back the nut off) until the spring tension is removed (see Figure C).
6. Then remove the full thread bolts and the bottom spring cover to access the springs.
7. Remove lower spring set.
8. Insert snubber puller, P/N 39539, under snubber (Item 14). Insert pry bar under snubber puller and pop loose snubber.
9. Using M24 deep socket, remove M16NY locknut from piston rod. Insert 5/8" or smaller rod through top of piston rod head to hold rod from turning to remove nut.
10. Piston puck and upper springs can now be accessed.
11. Reassemble in reverse order.

* Use red loctite 264 on shoe bolts only.

Figure A



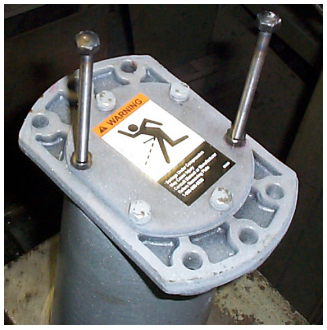


Figure B

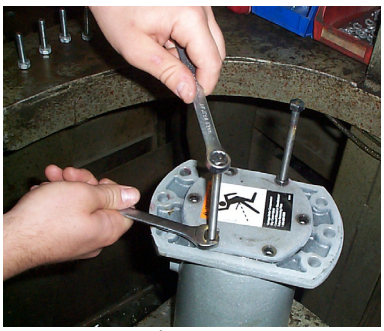


Figure C

ITEM	P/N	DESCRIPTION	QUANTITY
KIT	23159	Kit Snubber Puller XN	1
1	56338	Instructions Lower Unit Service XN	1
2	50107	Weld Thread M8 x 5.50 in.	2
3	39539	Puller Snubber	1
4	80854	NUTFX M8-1/25	2

4.22 LOADING AND TRANSPORTING

If the engine has been running, allow it to cool for at least 15 minutes before storing or loading on the transport vehicle. A hot engine and muffler can burn you and can ignite some materials.

Close the air vent on the gas tank by turning clockwise. Check that the engine fuel stop switch is in the stop position.

See Technical Data Section for machine sizes and weights. Use properly rated tie downs, chains and lifting equipment.

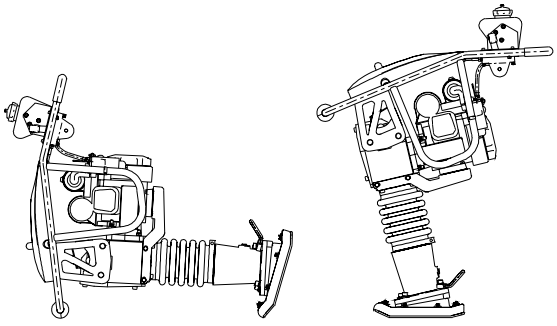
⚠WARNING

GASOLINE IS BOTH TOXIC AND FLAMMABLE. DO NOT SMOKE WHILE WORKING WITH FUEL. DO NOT USE NEAR OPEN FLAME. AVOID PROLONGED BREATHING OF VAPORS AND SKIN CONTACT. FLASH POINT OF GASOLINE IS 40° F (4° C). SERIOUS ILLNESS OR LOSS OF LIFE COULD RESULT.

ATTACH LIFT EQUIPMENT TO MACHINE LIFTEYE ONLY.

USE CAUTION WHEN LOADING, MACHINE MAY SWING, TIP, SLIDE OR FALL.

DO NOT STAND UNDER MACHINE WHEN LIFTING OR LOADING.



Transport the machine as shown. Always secure the machine in transport. Secure machine so it does not slide, tip or move.

4.23 STORAGE PREPARATION

Proper storage preparation is essential for keeping your Stomper trouble-free and looking good. The following steps will help to keep rust and corrosion from impairing your engine's function and appearance, and will make the engine easier to start when you use it again.

4.23.1 Cleaning

If the engine has been running, allow it to cool for at least an hour before cleaning. Clean all exterior surfaces, touch up any damaged paint and coat other areas that may rust with a light film of oil.

NOTICE:

- Using a garden hose or pressure washing equipment can force water into the air cleaner or muffler opening. Water in the air cleaner will soak the air filter and water that passes through the air filter or muffler can enter the cylinder causing damage.

- Water contacting a hot engine can cause damage. If the engine has been running, allow it to cool for at least an hour before washing.

4.23.2 Fuel

Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting and it leaves gum deposits that clog the fuel system. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage/temperatures accelerate fuel deterioration. Fuel deterioration problems may occur within a few months or even less if the gasoline was not fresh when you filled the fuel tank.

You can extend fuel storage life by adding a fuel stabilizer that is formulated for the purpose, or you can avoid fuel deterioration problems by draining the fuel tank and carburetor.

4.23.2.1 Adding Fuel Stabilizer

When adding a fuel stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.

1. Add fuel stabilizer following the manufacturer's instructions.

2. After adding a fuel stabilizer, run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.

3. Stop the engine

4.24 STORAGE PRECAUTIONS

If your engine will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition. Select a well-ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater or clothes dryer. Also avoid any area with a spark-producing electric motor or where power tools are operated.

If possible, avoid storage areas with high humidity because that promotes rust and corrosion.

Unless all fuel has been drained from the fuel tank, leave the fuel valve in the CLOSED or OFF position to reduce the possibility of fuel leakage.

Position the equipment so the engine is level. Tilting can cause fuel or oil leakage.

4.25 STORING STOMPERS

The following steps should be taken to prepare your Stomper for storage:

1. Disconnect fuel line and allow all fuel to drain from the gasoline tank only. Replace fuel line.

2. Start engine and allow to run until it stops from lack of fuel. This will use up all the fuel in the carburetor and prevent the formation of deposits due to evaporation of fuel.

⚠WARNING

GASOLINE IS BOTH TOXIC AND FLAMMABLE. DO NOT SMOKE WHILE WORKING WITH FUEL. DO NOT USE NEAR OPEN FLAME. AVOID PROLONGED BREATHING OF VAPORS AND SKIN CONTACT. FLASH POINT OF GASOLINE IS 40° F (4° C). SERIOUS ILLNESS OR LOSS OF LIFE COULD RESULT.

3. Check that the engine fuel stop switch is in the stop position.

4. Remove spark plug and pour 60cc or 2 ounces (1/4 cup) of motor oil into the cylinder.

5. Crank the engine two or three times to distribute the oil throughout the cylinder. This will help prevent rusting during storage.

6. Replace spark plug.

7. Pull the starter role slowly until resistance is felt and the notch on the starter pulley aligns with the hole at the top of the recoil starter cover. This will close the valves so moisture cannot enter the engine cylinder. Return the starter rope gently.

8. Store the unit in an upright position (as in the operating position) in a cool, dry, ventilated area.

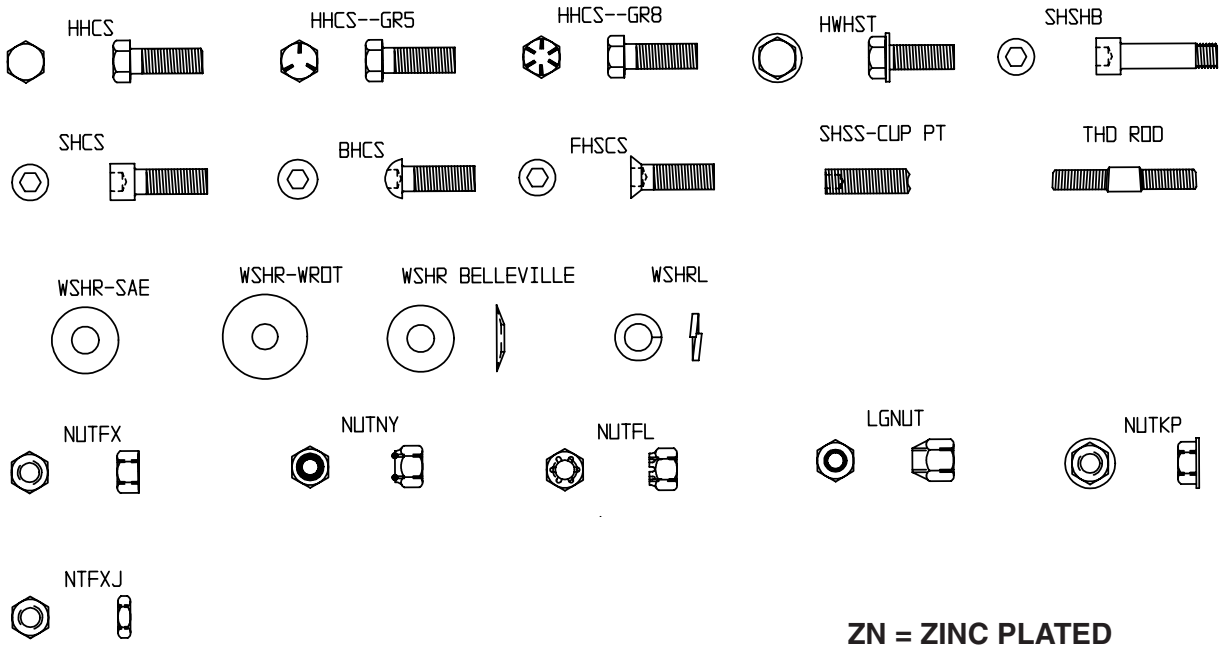
5. EXPLODED VIEWS WITH PARTS

5. Parts List

Exploded Views with Parts

5. Parts List

5.1 HARDWARE KEY



ZN = ZINC PLATED
BLK = BLACK OXIDE FINISH

5.2 TORQUE GUIDELINES

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

SAE GRADE 5 Coarse Thread, Zinc-Plated		
SIZE	TORQUE	
	ft. lbs.	Nm
1/4 - 20 (.250)	6	8
5/16 - 18 (.3125)	13	18
3/8 - 16 (.375)	23	31
7/16 - 14 (.4375)	37	50
1/2 - 13 (.500)	57	77
9/16 - 12 (.5625)	82	111
5/8 - 11 (.625)	112	152
3/4 - 10 (.750)	200	271
7/8 - 9 (.875)	322	436.5
1 - 8 (1.000)	483	655

SAE GRADE 8 Coarse Thread, Zinc-Plated		
SIZE	TORQUE	
	ft. lbs.	Nm
1/4 - 20 (.250)	9	12
5/16 - 18 (.3125)	18	24
3/8 - 16 (.375)	33	45
7/16 - 14 (.4375)	52	70
1/2 - 13 (.500)	80	108
9/16 - 12 (.5625)	115	156
5/8 - 11 (.625)	159	215
3/4 - 10 (.750)	282	382
7/8 - 9 (.875)	454	615
1 - 8 (1.000)	682	925

SAE GRADE 5 Fine Thread, Zinc-Plated		
SIZE	TORQUE	
	ft. lbs.	Nm
1/4 - 28 (.250)	7	10
5/16 - 24 (.3125)	14	19
3/8 - 24 (.375)	26	35
7/16 - 20 (.4375)	41	56
1/2 - 20 (.500)	64	87
9/16 - 18 (.5625)	91	123
5/8 - 18 (.625)	128	173
3/4 - 16 (.750)	223	302
7/8 - 14 (.875)	355	481
1 - 12 (1.000)	529	717
1 -14 (1.000)	541	733

SAE GRADE 8 Fine Thread, Zinc-Plated		
SIZE	TORQUE	
	ft. lbs.	Nm
1/4 - 28 (.250)	10	14
5/16 - 24 (.3125)	20	27
3/8 - 24 (.375)	37	50
7/16 - 20 (.4375)	58	79
1/2 - 20 (.500)	90	122
9/16 - 18 (.5625)	129	175
5/8 - 18 (.625)	180	244
3/4 - 16 (.750)	315	427
7/8 - 9 (.875)	501	679
1 - 12 (1.000)	746	1011
1 -14 (1.000)	764	1036

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Property Class 8.8

ZINC-PLATED

SIZE	Coarse Thread		Fine Thread	
	Nm	ft. lbs.	Nm	ft. lbs.
M6	9.9	7	10	7
M8	24	18	25	18
M10	48	35	49	36
M12	83	61	88	65
M14	132	97	140	103
M16	200	148	210	155
M20	390	288	425	313
M24	675	498	720	531

Property Class 10.9

ZINC-PLATED

SIZE	Coarse Thread		Fine Thread	
	Nm	ft. lbs.	Nm	ft. lbs.
M6	14	10	14	10
M8	34	25	35	26
M10	67	49	68	50
M12	117	86	125	92
M14	185	136	192	142
M16	285	210	295	218
M20	550	406	600	443
M24	950	701	1000	738

Property Class 12.9

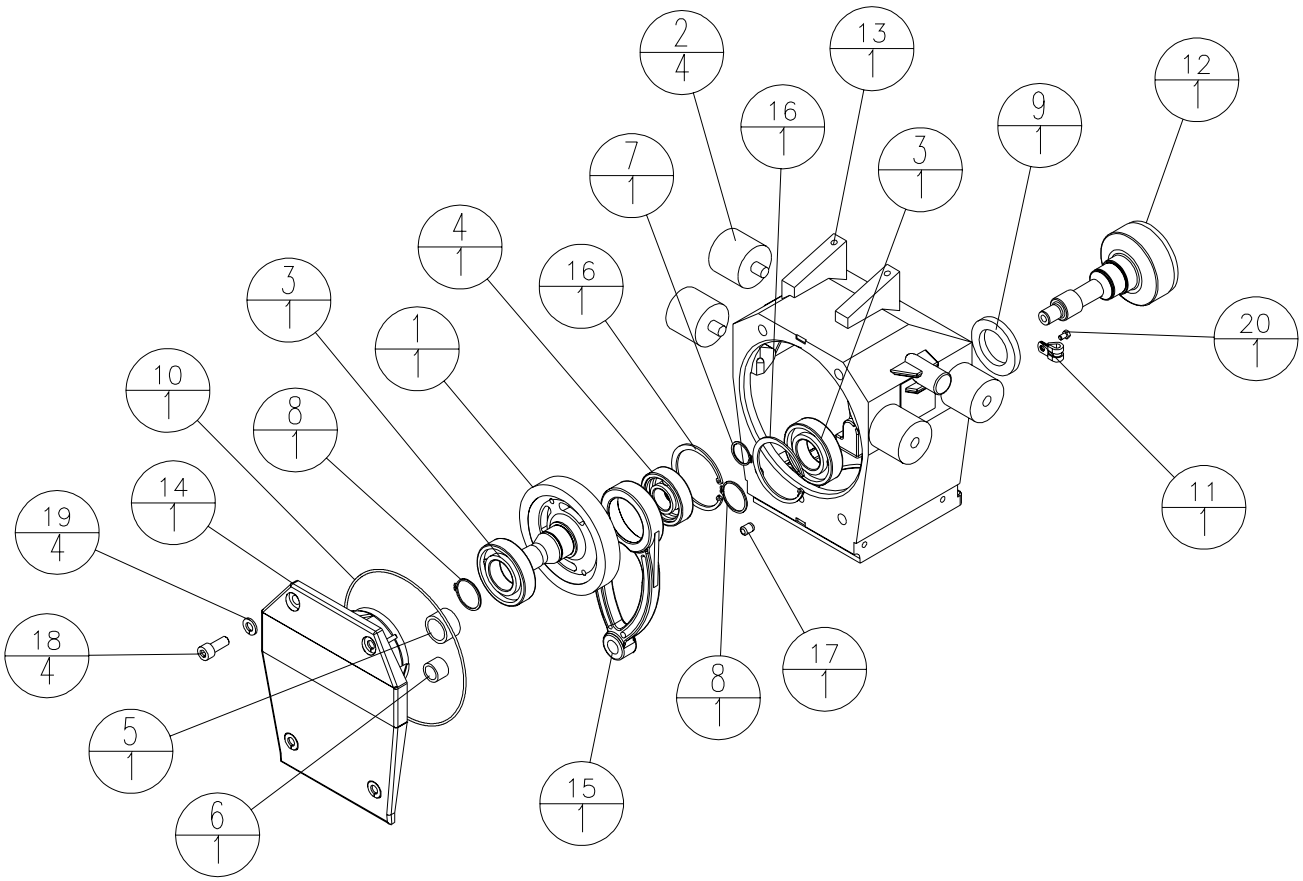
ZINC-PLATED

SIZE	Coarse Thread		Fine Thread	
	Nm	ft. lbs.	Nm	ft. lbs.
M6	16.5	12	16.5	12
M8	40	30	42	31
M10	81	60	82	60
M12	140	103	150	111
M14	220	162	235	173
M16	340	251	350	258
M20	660	487	720	531
M24	1140	841	1200	885

Conversion Factor: 1 ft. lb. = 1.3558 Nm

5. Parts List

5.3 Gearcase XH670, XH730, XH840



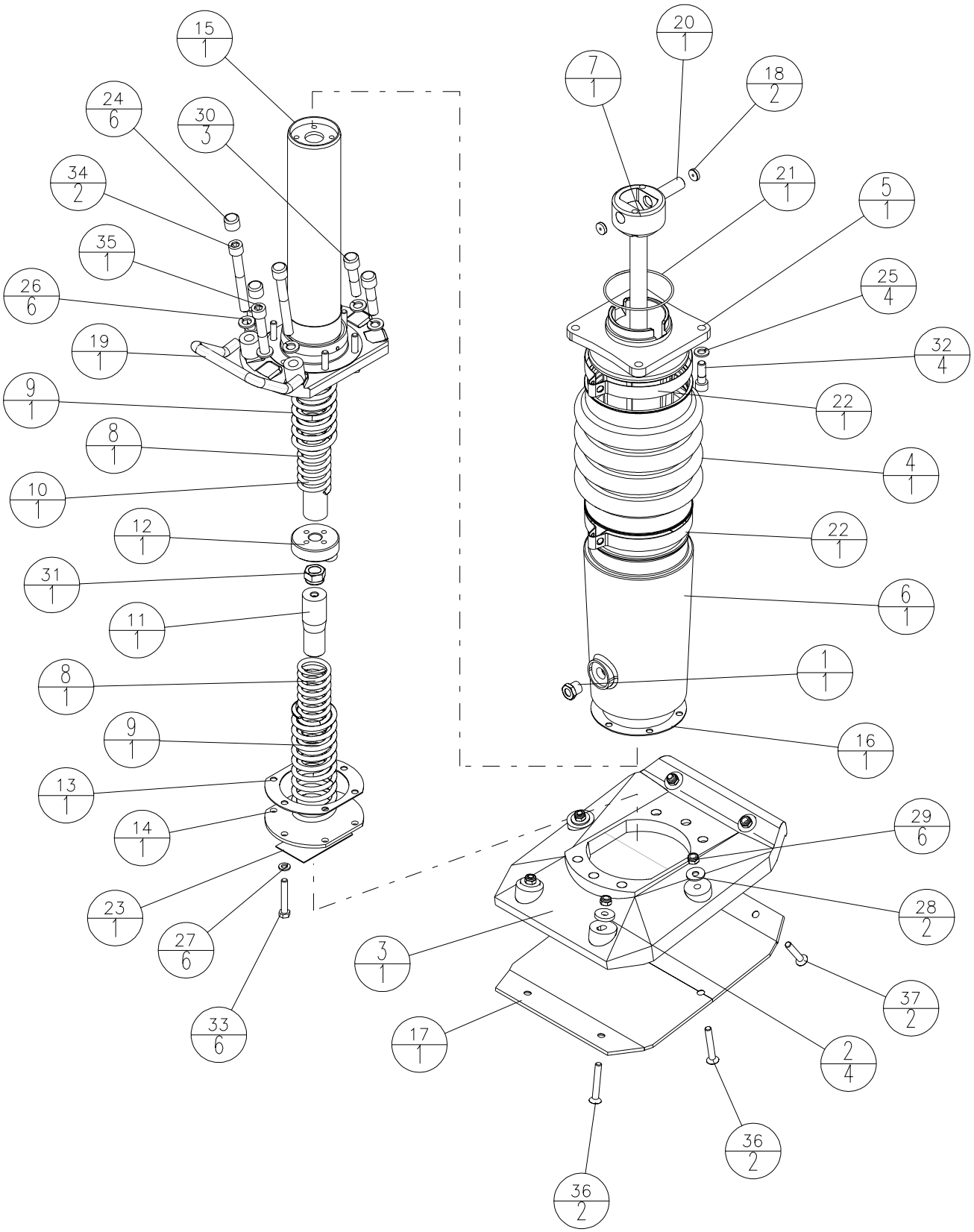
ITEM	PART NO.	DESCRIPTION	QTY
1	39379	GEAR HELICAL 55T XH670	1
2	39425	SHOCK MOUNT	4
3	39428	BEARING, BALL–1.378 ID x 2.8346 OD	2
4	39429	BEARING, BALL–.9843 ID x 2.4409 OD	1
5	39430	BEARING, NEEDLE–.9843 ID x 1.2598 OD	1
6	39431	BEARING, NEEDLE–.6299 ID x .8661 OD	1
7	39432	RING, EXTERNAL–.984	1
8	39433	RING, EXTERNAL–1.375	2
9#	39435	SEAL, SHAFT–1.563	1
10	39437	O–RING 2.62MM X 177.47MM	1
11	39509	CLAMP 3/8 RUBBER LOOP	1
12	50192	PINION HELICAL 12DP 10T	1
13	50193–2	GEARCASE MACHINED XH670,XH740	1
14	50294–2	COVER FRONT	1
15	50302	ROD CONNECTING MACHINE	1
16	50539	RING INTERNAL 2.81IN 2.98IN.09IN PN MOD	2
17	80543	PINDL 3/8 x 1/2	1
18	80803	SHCS M10–1.5 x 25 8.8 ZN	4
19	80804	WSHRL M10 SPLIT ZN	4
20**	81043	HHCS M5–.8 X 8 8.8 ZN	1

1a	50310	GEAR HELICAL 55T XH730,XH840	1
13a	50304–2	GEARCASE MACHINED XH840	1
15a	50425	CONNECTING ROD MACHINED XH730,XH840	1

** LOCTITE 242
# GREASE SEAL WHEN REPLACING

5. Parts List

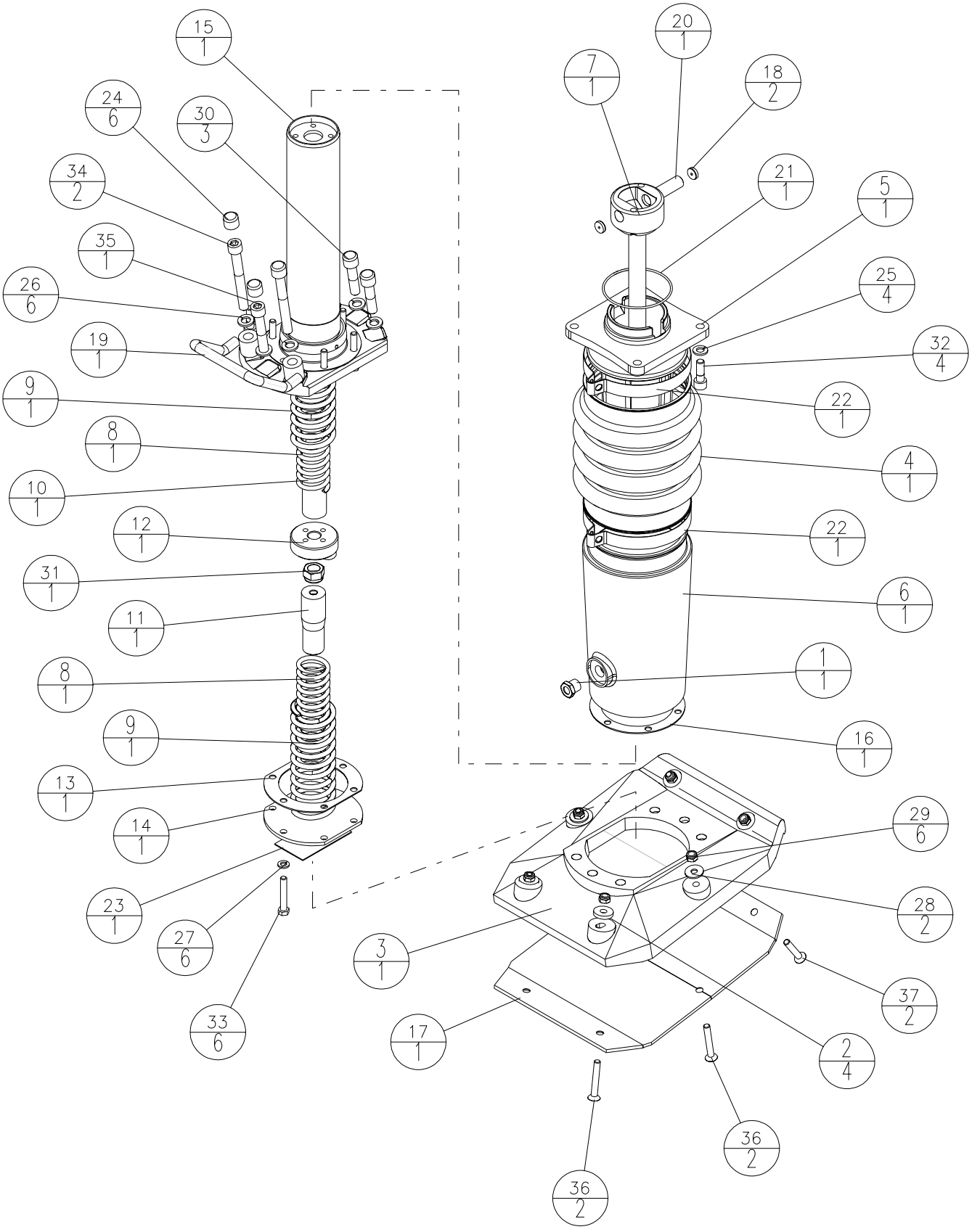
5.4 Lower Unit XH670



ITEM	PART NO.	DESCRIPTION	QTY
1	34096	OIL SIGHT PLUG	1
2	39233	WSHR .343 X 1.00 X .179 ZN	4
3	39371	SHOE AWACK	1
4	39372	BOOT	1
5	39374	GUIDE TUBE MACHINED	1
6	39377-2	COVER-SPRING HOUSING	1
7	39381	PISTON ROD	1
8	39382	SPRING COMPRESSION INNER	2
9	39383	SPRING COMPRESSION OUTER	2
10	39384	SNUBBER-AXIAL, TOP	1
11	39385	SNUBBER-AXIAL, LOWER	1
12	39389	PUCK PISTON GUIDE	1
13	39390	GASKET-SPRING COVER	1
14	39392	COVER-BOTTOM, SPRING	1
15	39398-2	WELD SPRING HOUSING	1
16	39399	GASKET-SPRG HSG COVER	1
17	39400-2	PLATE SHOE	1
18	39401	PIN CAPTIVATOR BUTTON	2
19	39405-2	WELD LIFTING GRIP	1
20	39436	PINDL 5/8 X 2 1/4 LG	1
21	39438	O-RING 2.5MM X 85MM	1
22	39439	BOOT CLAMP	2
23	55535	DECAL WARNING SPRINGS	1
24	80765	CAP	6
25	80804	WSHRL M10 SPLIT ZN	4

5. Parts List

5.4 Lower Unit XH670 Cont'd.



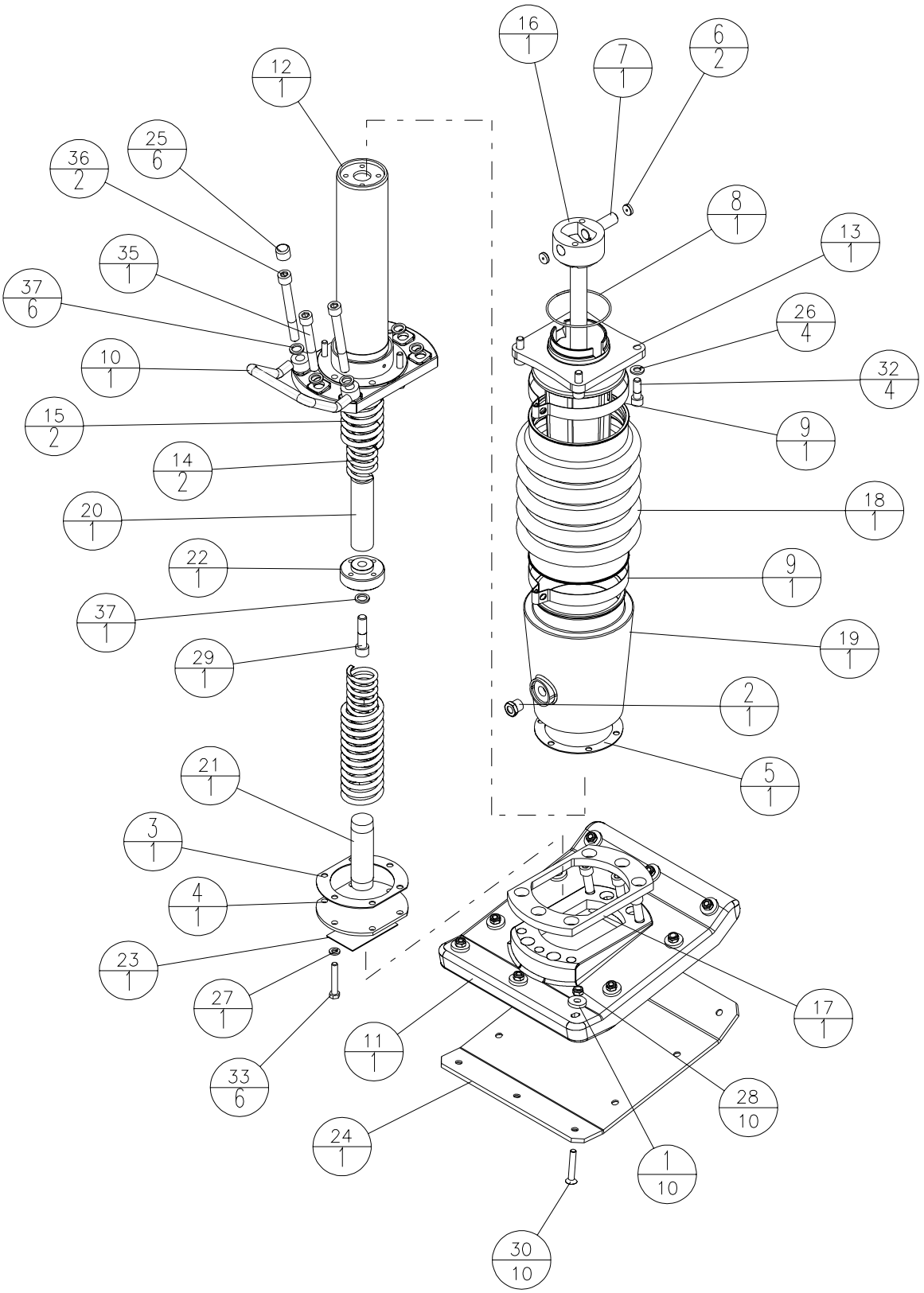
26	80805	WSHRL M12 SPLIT ZN	6
27	80812	WSHRL M8 SPLIT ZN	6
28	80813	WSHR FLAT M8 X 24 ZN	2
29	80817	NUTNY M8−1.25 ZN	6
30 *	80822	SHCS M12−1.75 X 50 8.8 ZN	3
31	80852	NUTNY M16−2 ZN	1
32	80872	SHCS M10−1.5 X 30 8.8 ZN	4
33**	80883	HHCS M8−1.25 X 50 8.8 ZN	6
34 *	80943	SHCS M12−1.75 X 100 8.8 ZN	2
35 *	80945	SHCS M12−1.75 X 70 8.8 ZN	1
36 *	80948	FHSCS M8−1.25 x 55 10.9 BLK	4
37 *	80949	FHSCS M8−1.25 x 45 10.9 BLK	2

* LOCTITE 262
** LOCTITE 242

^ Not Shown

5. Parts List

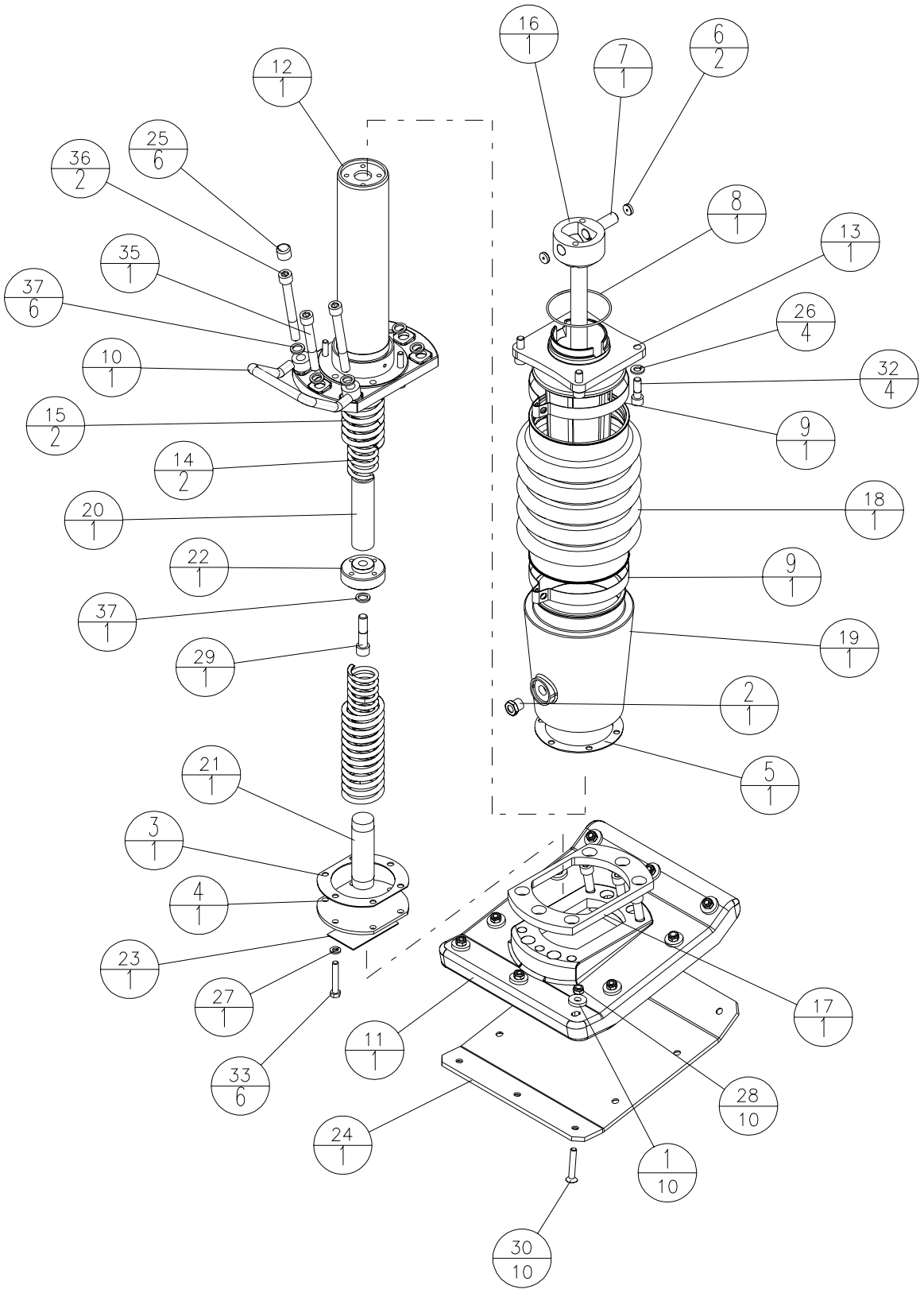
5.5 Lower Unit XH730, XH840



ITEM	PART NO.	DESCRIPTION	QTY
1	26325	WSHR .375 ID X 1.00 OD X .187 ZN	10
2	34096	OIL SIGHT PLUG	1
3	39390	GASKET–SPRING COVER	1
4	39392	COVER–BOTTOM, SPRING	1
5	39399	GASKET–SPRG HSG COVER	1
6	39401	PIN CAPTIVATOR BUTTON	2
7	39436	PINDL 5/8 X 2 1/4 LG	1
8	39438	O–RING 2.5MM X 85MM	1
9	39439	BOOT CLAMP	2
10	39480–2	WELD LIFTING GRIP	1
11	47302	SHOE PLASTIC 11 x 13	1
12	50280–2	WELD SPRING HOUSING	1
13	50281	TUBE GUIDE MACHINED	1
14	50282	SPRING COMPRESSION INNER	2
15	50283	SPRING COMPRESSION OUTER	2
16	50305	PISTON ROD MACHINED	1
17	50370–2	PLATE SPACER SHOE XH730	1
18	50408	BOOT STOMPER RED	1
19	50409–2	COVER LOWER MACHINE	1
20	50410	SNUBBER SPRING UPPER	1
21	50411	SNUBBER SPRING LOWER	1
22	50465	PUCK PISTON	1
23	55535	DECAL WARNING SPRINGS	1
24	65024–2	PLATE SHOE 11 X 13	1
25	80765	CAP	6
26	80804	WSHRL M10 SPLIT ZN	4
17a	50371–2	SLV PLATE SPACER SHOE XH840	1

5. Parts List

5.5 Lower Unit XH730, XH840 Cont'd.



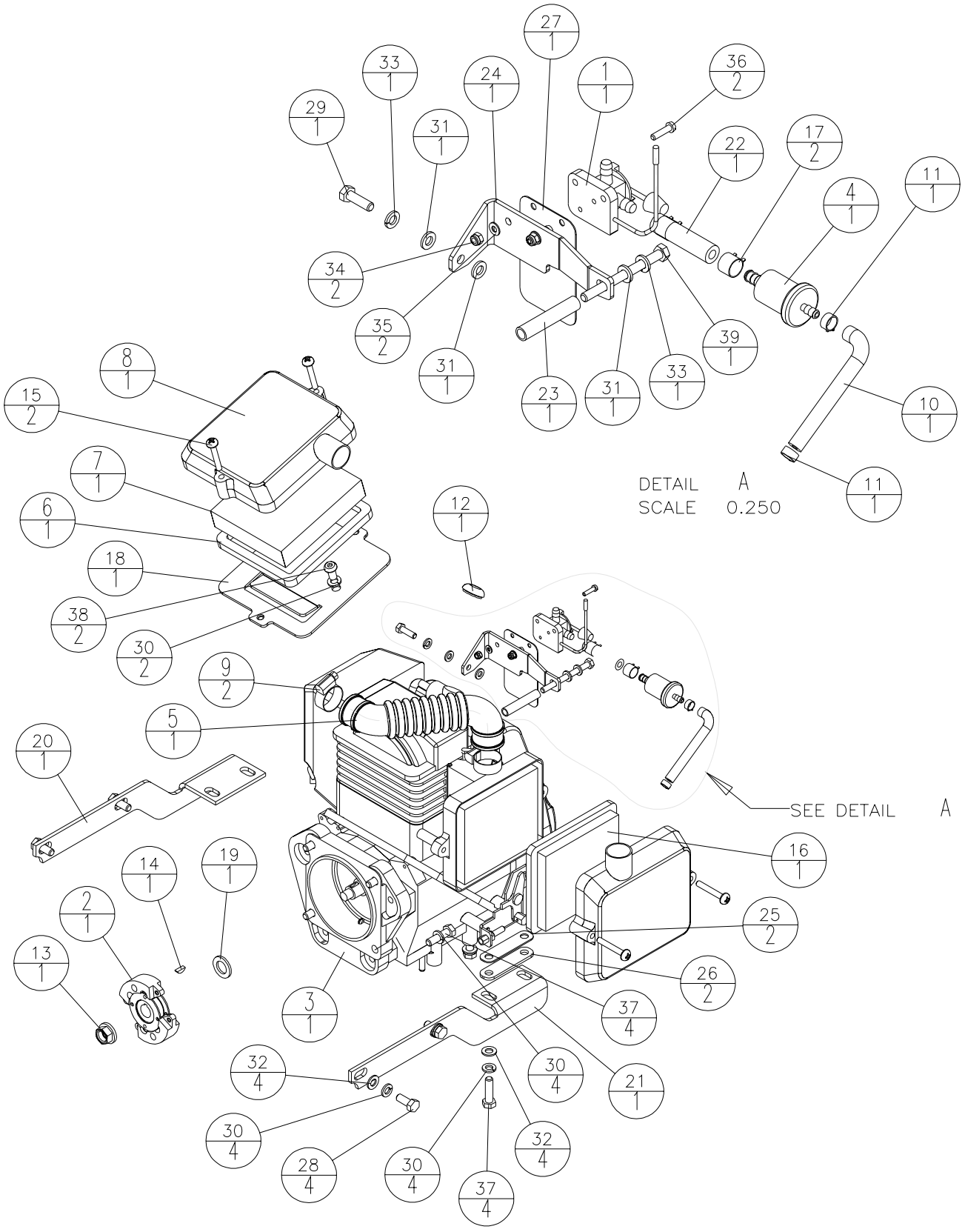
27	80812	WSHRL M8 SPLIT ZN	1
28	80817	NUTNY M8−1.25 ZN	10
29*	80822	SHCS M12−1.75 X 50 8.8 ZN	1
30	80823	FHSCS M8−1.25 X 50 10.9 BLK ZN	10
31*	80827	SHCS M12−1.75 X 60 8.8 ZN	1
32	80872	SHCS M10−1.5 X 30 8.8 ZN	4
33	80883	HHCS M8−1.25 X 50 8.8 ZN	6
34*	80945	SHCS M12−1.75 X 70 8.8 ZN	2
35*	80946	SHCS M12−1.75 X 90 8.8 ZN	1
36*	81193	SHCS M12−1.75 X 110 8.8 ZN	2
37	81196	WSHR NORD−LOCK M12 ZN	7

35a 81194 SHCS M12−1.75 X 100 8.8 ZN XH840 1

* LOCTITE 262
** LOCTITE 242

5. Parts List

5.6 Engine XH670, XH730 Honda GX100

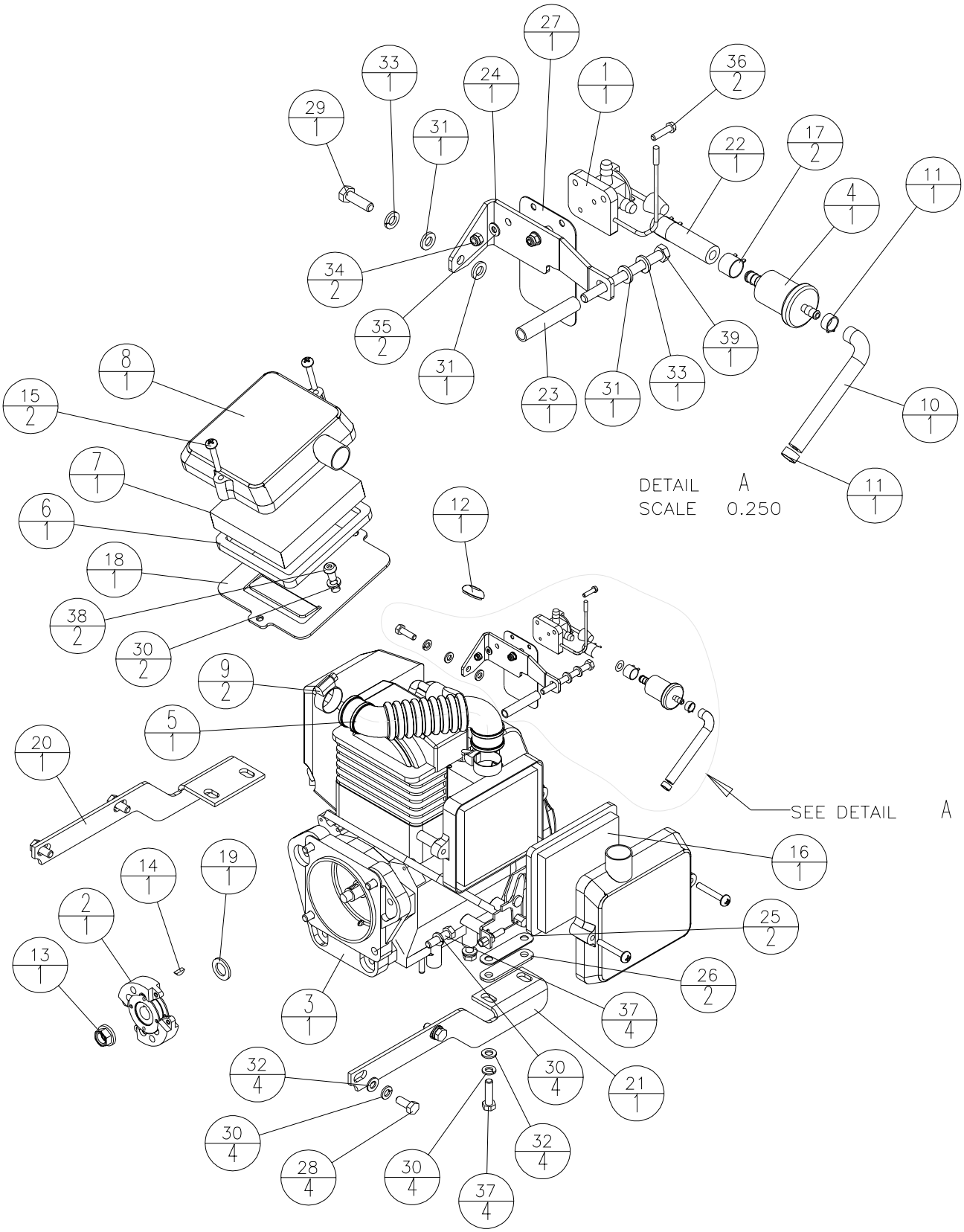


5. Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	23130	VALVE/KILL SWITCH ASSEMBLY	1
2	30308	CLUTCH ROBIN ST,SN,XT	1
3	30611	ENGINE HONDA 3HP GAS GX100	1
4	31231	FILTER FUEL gx100	1
5	32515	TUBE AIR GX100	1
6	32516	GASKET PREFILTER GX100	1
7	32517	FILTER AIR PREFILTER GX100	1
8	32518	COVER FILTER AIR gx100	1
9	32519	CLAMP WORM .68-1.25	2
10	32521	HOSE FUEL LINE 4.5mm ID X 4IN	1
11	32522	CLAMP FUEL LINE .375od	2
12	32523	PLUG RUBBER GX100	1
13	32524	NUTFX M12-1.75 ZN	1
14	32525	KEY WOODRUFF 4MM GX100	1
15	32526	PPHMS M6-1 X 40MM BLK GX100	2
16	32527	FILTER AIR PAPER GX100	1
17	34492	CLAMP HOSE 1/2	2
18	50187-2	WELD BASE PREFILTER	1
19	50188	SPACER CLUTCH GX100	1
20	50195-2	BRACKET RH SUPPORT GX100	1
21	50196-2	BRACKET LH SUPPORT GX100	1
22	50197	HOSE FUEL LINE.25ID X 2.00LG	1
23	50198-2	SPACER BRACKET SWITCH STOP	1
24	50199-2	BRACKET SWITCH STOP	1
25	50255	SHIM ENGINE 16GA GX100	2
26	50256	SHIM ENGINE 11GA GX100	2
27	55485	TAG SWITCH ENGINE	1

5. Parts List

5.6 Engine XH670, XH730 Honda GX100 Cont'd.

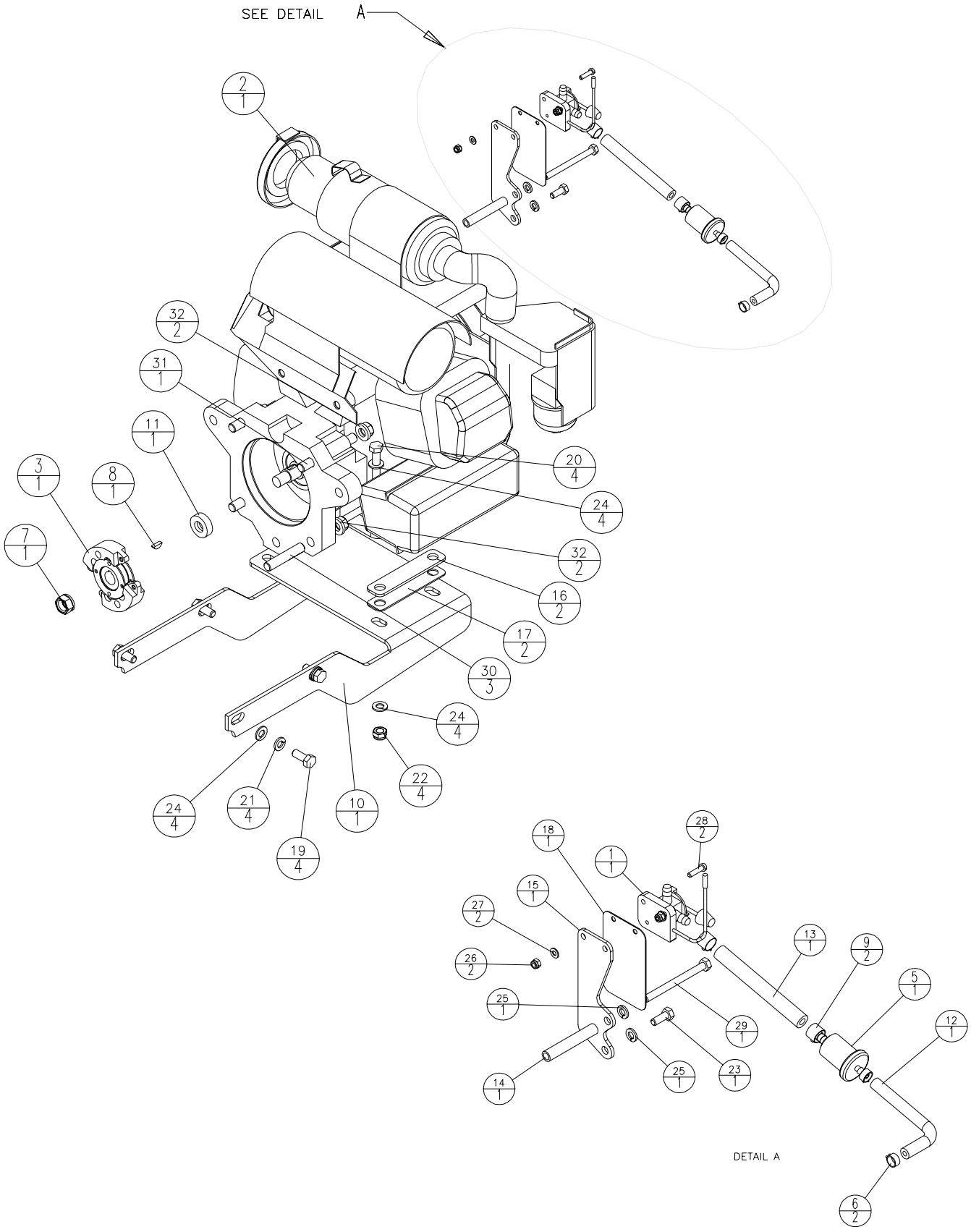


28	80406	HHCS M8–1.25 X 20 8.8 ZN	4
29**	80758	HHCS M6–1 X 20 8.8 ZN	1
30	80812	WSHRL M8 SPLIT ZN	14
31	80856	WSHR FLAT M6 X 12 ZN	3
32	80857	WSHR FLAT M8 X 16 ZN	8
33	80860	WSHRL M6 SPLIT ZN	2
34	80878	NUTNY M4–0.7 ZN	2
35	80880	WSHR FLAT M4 X 9 ZN	2
36	80926	CHSCS M4–.7 X 16 4.8 ZN	2
37**	80931	HHCS M8–1.25 X 30 8.8 ZN	8
38	81188	BHSCS M8–1.25 X 16 SST	2
39**	81192	HHCS M6–1 X 70MM 8.8 ZN	1

** LOCTITE 242

5. Parts List

5.7 Engine XH840 Honda GX120



5. Parts List

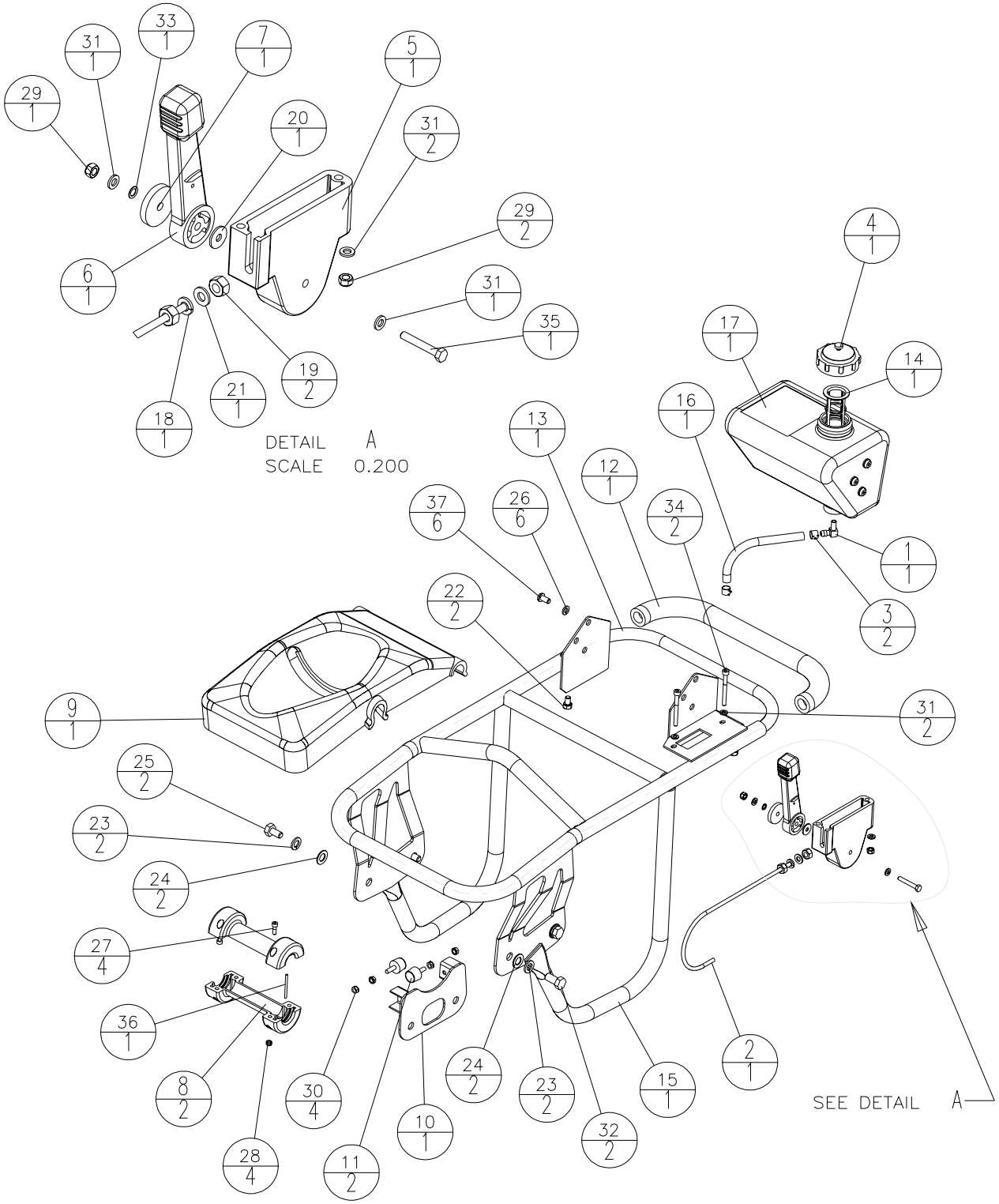
5.7 Engine XH840 Honda GX120

ITEM	PART NO.	DESCRIPTION	QTY
1	23130	VALVE/KILL SWITCH ASSEMBLY	1
2	23152	KIT AIR FILTER HONDA GX120	1
3	30308	CLUTCH ROBIN ST,SN,XT	1
4	30567	ENGINE HONDA GX120	1
5	31231	FILTER FUEL gx100	1
6	32522	CLAMP FUEL LINE .375od	2
7	32524	NUTFX M12-1.75 ZN	1
8	32525	KEY WOODRUFF 4MM GX100	1
9	34492	CLAMP HOSE 1/2	2
10	50306-2	WELD SUPPORT ENGINE GX120	1
11	50311	SPACER CLUTCH HONDA GX120	1
12	50320	HOSE FUEL LINE 4.5mm ID X 4.5IN	1
13	50321	HOSE FUEL LINE .25ID X 4in	1
14	50361-2	TUBE SWITCH STOP	1
15	50362-2	PLATE SWITCH GX120	1
16	50414	SHIM ENGINE 11GA GX120	2
17	50415	SHIM ENGINE 16GA GX120	2
18	55485	TAG SWITCH ENGINE	1
19	80406	HHCS M8-1.25 X 20 8.8 ZN	4
20*	80762	HHCS M8-1.25 X 40 8.8 ZN	4
21	80812	WSHRL M8 SPLIT ZN	4
22	80817	NUTNY M8-1.25 ZN	4
23	80836	HHCS M6-1 X 16 8.8 ZN	1
24	80857	WSHR FLAT M8 X 16 ZN	12
25	80860	WSHRL M6 SPLIT ZN	2
26	80878	NUTNY M4-0.7 ZN	2
27	80880	WSHR FLAT M4 X 9 ZN	2
28	80926	CHSCS M4-.7 X 16 4.8 ZN	2
29	81192	HHCS M6-1 X 70MM 8.8 ZN	1
30**	81207	STUD M10 X 52mm ZN	3
31**	81208	STUD M10 X 80mm ZN	1
32	81209	NUTFX M12-1.25 ZN	4

* LOCTITE 262
** LOCTITE 242

5. Parts List

5.8 Handle XH670, XH730, XH840



5. Parts List

5.8 Handle XH670, XH730, XH840

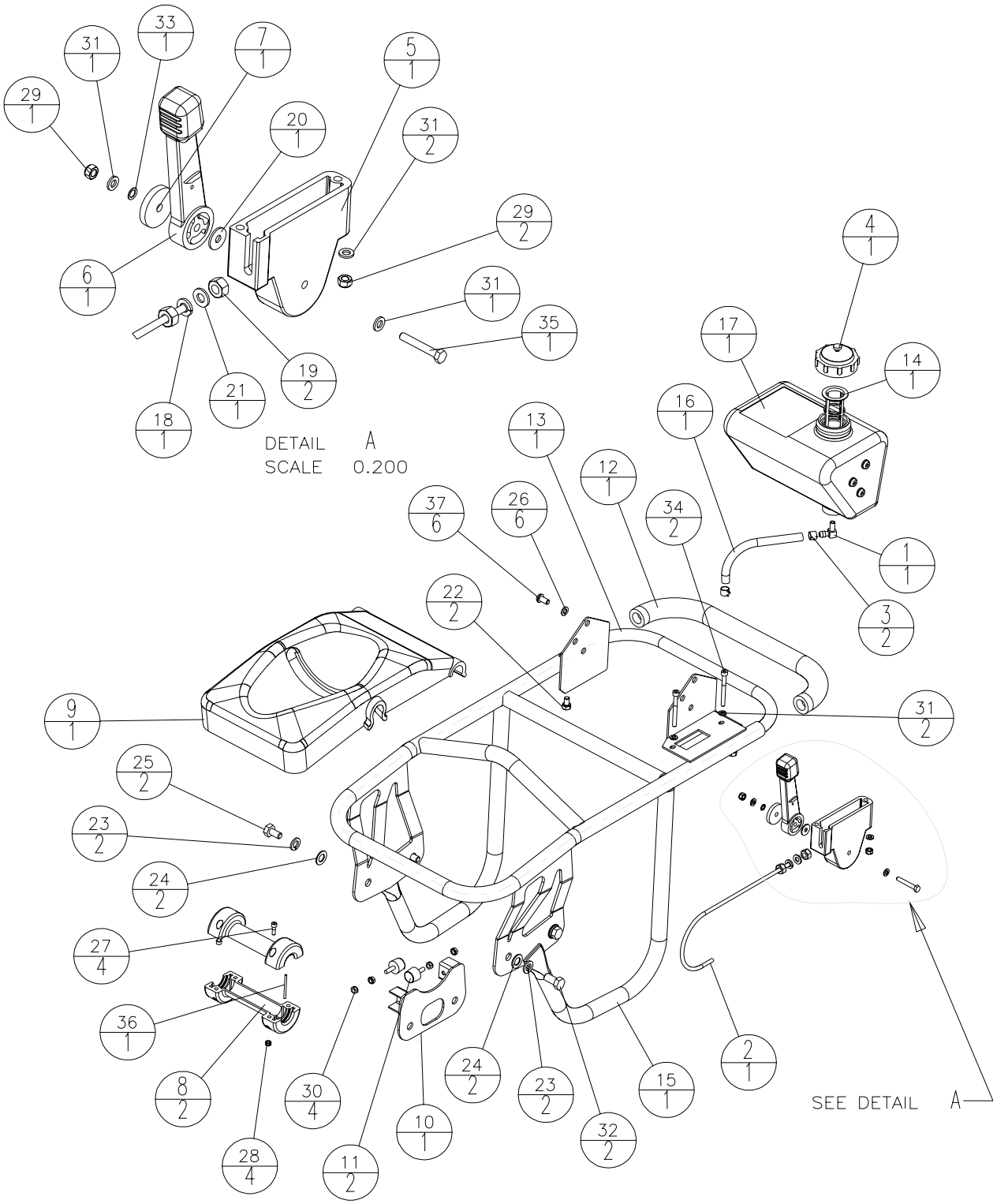
ITEM	PART NO.	DESCRIPTION	QTY
1	23022	1/8-27 NPT HOSE BARB	1
2	32520	CABLE THROTTLE XH670,XH730	1
3	34492	CLAMP HOSE 1/2	2
4	35701	CAP PLASTIC GAS/WATER	1
5	39386	THROTTLE HSG	1
6	39387	THROTTLE LEVER	1
7	39402	THROTTLE WASHER	1
8	39407	DOG BONE HANDLE WHEEL (OPTIONAL)	2
9	39421	COVER ENGINE XN650,XH670,XH730	1
10	39424-2	WELD STOPPER	1
11	39427	SHOCK MOUNT TYPE KD	2
12	39483	CUSHION GRIP HAND	1
13	42819	TUBE GRIP	1
14	47219	FUEL STRAINER	1
15	50322-2	WELD HANDLE XH730	1
16	50359	HOSE FUEL .25ID X 7IN XH670,XH730	1
17	50378	TANK GASOLINE	1
18	80086	WSHRL 5/16 MED SPLIT ZN	1
19	80247	NUTFX 5/16-24 ZN	2
20	80347	WSHR WROT 1/4 ZN	1
21	80495	WSHR SAE 5/16 ZN	1
22	80586	HWHST 5/16-18 x 1/2 ZN	2
23	80805	WSHRL M12 SPLIT ZN	4

2a	39485	CABLE THROTTLE XH840	1
8a	23138	KIT WHEEL HANDLE (OPTIONAL)	1
9a	39461	COVER ENGINE XJ834,XH840	1
12a	39420	CUSHION GRIP HAND XH670	1
13a	39411	TUBE GRIP XH670	1
13b	39460	TUBE GRIP XH840	1
15a	50190-2	WELD HANDLE XH670	1
15b	50315-2	WELD HANDLE XH840	1
16a	50319	HOSE FUEL .25ID X 11IN XH840	1

* LOCTITE 262

5. Parts List

5.8 Handle XH670, XH730, XH840 Cont'd.



24	80807	WSHR FLAT M12 X 24 ZN	4
25*	80808	HHCS M12–1.75 x 20 8.8 ZN	2
26	80812	WSHRL M8 SPLIT ZN	6
27	80821	SHCS M5–.8 X 16 8.8 ZN	4
28	80850	NUTNY M5–.8 ZN	4
29	80851	NUTNY M6–1 ZN	3
30	80853	NUTKP M6 ZN BN1364	4
31	80856	WSHR FLAT M6 X 12 ZN	6
32*	80887	HHCS M12–1.75 X 25 8.8 ZN	2
33	80939	WSHR BELLEVILLE 1/4 ID X 11/16 OD	1
34	80940	SHCS M6–1.0 X 60 8.8 ZN	2
35	80947	HHCS M6–1 X 40 8.8 ZN	1
36	81154	PINSP 1/8 X 1–3/4 SST	1
37	81188	BHSCS M8–1.25 X 16 SST	6

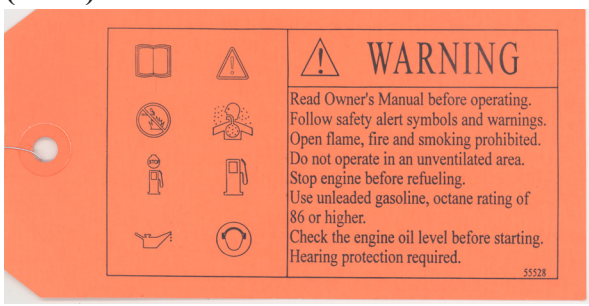
* LOCTITE 262

5. Parts List

1

2

3 (side 1)



3 (side 2)

4

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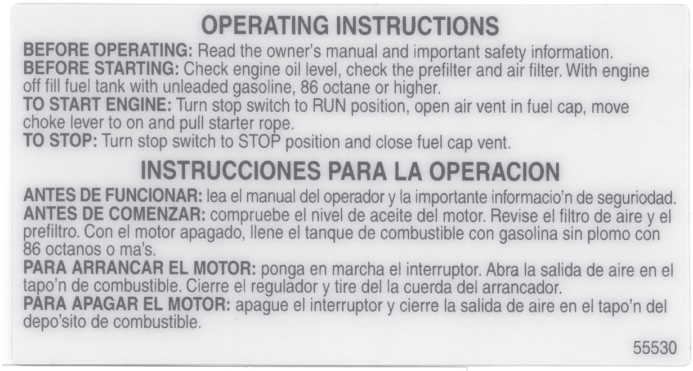

7

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10

11

12

13

Item	P/N	Description	Quantity
1	55485	Tag Switch Stop	1
2	55527	Decal Instruction Air Filter	1
3	55528	Tag Safety Warning	1
4	55214	Decal Sta-bil	1
5	55529	Decal Instruction Throttle	1
6	55530	Decal Instruction Operation	1
7	55531	Decal Instruction RPM XH670	1
8	55533	Decal Instruction RPM XH730	1
9	55532	Decal Instruction RPM XH840	1
10	55535	Decal Warning Springs	1
11	55541	Decal Instruction Notice	1
12	55536	Decal Instruction Oil Level	1
13	55543	Decal Instruction Choke	1

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