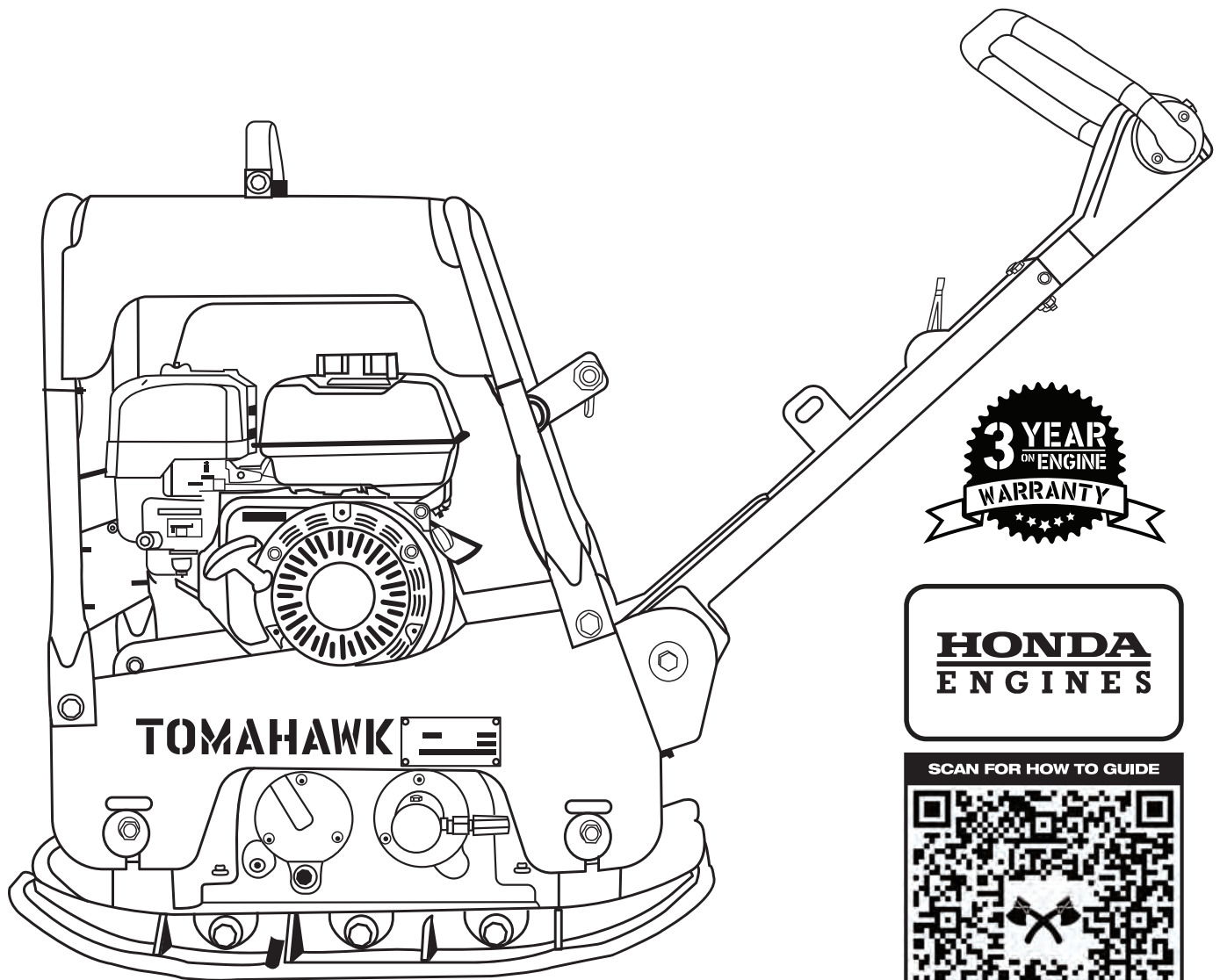


TOMAHAWK

REVERSE HYDRAULIC PLATE COMPACTOR

MODEL NUMBER: TPC175H

Operation Manual



HONDA
ENGINES

SCAN FOR HOW TO GUIDE



HOW TO VIDEOS, GUIDES,
MANUALS, & MORE



Table of Contents

1. SAFETY INFORMATION	4
1.1 Laws Pertaining to Spark Arresters	5
1.2 Operating Safety	5
1.3 Safety While Using Combustion Engines	6
1.4 Service Safety	6
2. PRODUCT DETAILS	7
2.1 Compactor Description	7
2.2 Specifications	7
2.3 Compactor Components	8
2.4 Understanding the Control Lever	10
2.5 Connecting the Extension Plates	10
3. OPERATION	11
3.1 Recommended Fuel	11
3.2 Before Starting	11
3.3 Starting the Engine	11
3.4 Stopping the Engine	11
3.5 Application	12
3.6 Operation	12
4. MAINTENANCE	12
4.1 Cleaning the Plate	12
4.2 Periodic Maintenance	13
4.3 Adding Exciter Box Oil	13
4.4 Spark Plug	14
4.5 Engine Oil	14
4.6 Air Filter	15
4.7 Cleaning the Air Filter Cup	15
4.8 Carburetor Adjustment	16
4.9 Hydraulic Oil	17
4.10 Tightening the V-Belt	17
5. TROUBLESHOOTING	18
6. STORAGE	18
6.1 Storage Tips	18
7. EQUIPMENT WARRANTY	19
8. SERVICE CENTERS	19
9. COMPACTION TIPS	20

Register Your Equipment

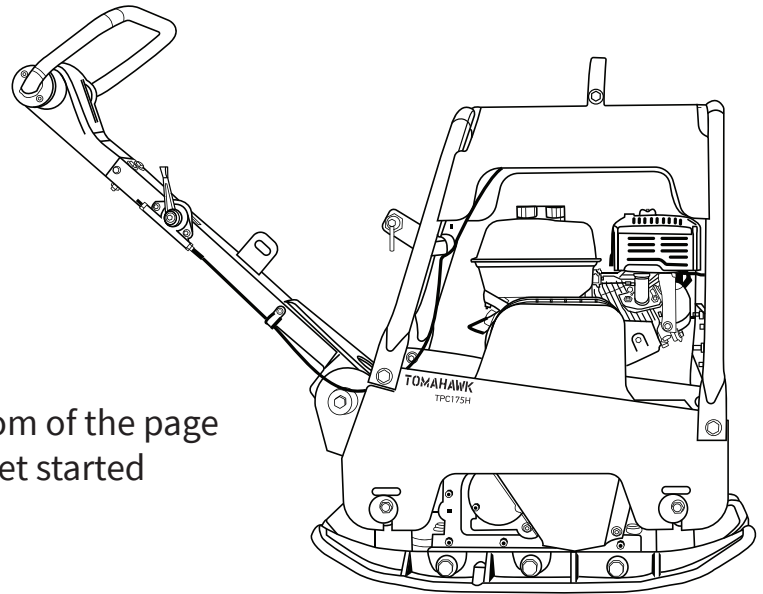
Thank you for purchasing TOMAHAWK equipment! Your product is covered by the TOMAHAWK Warranty policy, but in order to activate your warranty, we need you to register your product. In addition to activating your equipment warranty, product registration will grant you access to important product updates, streamlined customer service and more.

INCLUDED WITH YOUR REGISTRATION

- ✓ Equipment Warranty Activation
- ✓ Product Updates
- ✓ Streamlined Customer Service
- ✓ Exclusive Discounts and Sales

STEPS TO REGISTER YOUR EQUIPMENT

1. Visit www.tomahawk-power.com
2. Choose “Product Registration” at the bottom of the page
3. Enter your equipment’s serial number to get started
4. Provide all required information
5. Submit Registration



Equipment Resources

Tomahawk Customer Service doesn't stop at checkout. We understand to keep a job-site running smoothly - the proper equipment, spare parts, instruction manuals, and more are needed at the drop of a hat. Visit www.tomahawk-power.com to gain access to the incredible resources below.

How To Video Library

More of a visual person? Visit our Video Library for equipment assembly instructions, troubleshooting tips, and more!

Found on each product listing or the Service Videos Page

Manual and Assembly Guide Library

Visit our Manual Library if you are looking for a lost operations manual or a particular spare part?

Found on each product listing or the Tomahawk Manuals Page

Service Requests

In need of a quick fix or a service center referral? Submit a Service Request and a Tomahawk Technician will respond shortly to get you the help you need.

Choose “Service Request” at the bottom of www.tomahawk-power.com



This manual provides information and procedures to safely operate and maintain this equipment. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the equipment. If you lose this manual or need an additional copy, please contact Tomahawk Power LLC or visit www.tomahawk-power.com. This equipment is built with user safety in mind; however, it can present hazards if improperly operated and serviced. Follow operating instructions carefully. If you have questions about operating or servicing this equipment, contact Tomahawk Power.

The information contained in this manual is based on equipment's production at the time of publication. Tomahawk Power reserves the right to change any portion of this information without notice.

No part of this publication may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express written permission from Tomahawk Power.

Any type of reproduction or distribution not authorized by Tomahawk Power represents an infringement of valid copyrights and will be prosecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

1. SAFETY INFORMATION

This manual contains DANGER, WARNING, CAUTION, and NOTE callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Used without the safety alert symbol, **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in property damage.

1.1 Laws Pertaining to Spark Arresters

Notice: State Health Safety Codes and Public Resources Codes specify that in certain locations spark arresters be used on internal combustion engines that use hydrocarbon fuels. A spark arrester is a device designed to prevent accidental discharge of sparks or flames from the engine exhaust. Spark arresters are qualified and rated by the United States Forest Service for this purpose.

In order to comply with local laws regarding spark arresters, consult the engine distributor or the local Health and Safety Administrator.

1.2 Operating Safety



Familiarity and proper training are required for the safe operation of equipment! Equipment operated improperly or by untrained personnel can be dangerous! Read the operating instructions contained in both this manual and the engine manual and familiarize yourself with the location and proper use of all controls. Inexperienced operators should receive instruction from someone familiar with the equipment before being allowed to operate the machine.

1.2.1 NEVER allow anyone to operate this equipment without proper training. People operating this equipment must be familiar with the risks and hazards associated with it.

1.2.2 NEVER touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause burns.

1.2.3 NEVER use accessories or attachments that are not recommended by Tomahawk Power. Damage to equipment and injury to the user may result.

1.2.4 NEVER leave machine running unattended.

1.2.5 ALWAYS be sure operator is familiar with proper safety precautions and operation techniques before using machine.

1.2.6 ALWAYS wear approved safety goggles or safety glasses with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.

1.2.7 ALWAYS close fuel valve on engines equipped with one when machine is not being operated.

1.2.8 ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.

1.2.9 ALWAYS operate machine with all safety devices and guards in place and in working order. DO NOT modify or remove safety devices. DO NOT operate machine if any safety devices or guards are missing or inoperative.

1.2.10 ALWAYS read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.

1.3 Safety While Using Combustion Engines

 Internal combustion engines present special hazards during operation and fueling! **DANGER** Read and follow warning instructions in engine owner's manual and safety guidelines below. Failure to follow warnings and DANGER safety guidelines could result in severe injury or death.

1.3.1 DO NOT run machine indoors or in an enclosed area such as a deep trenches unless there is adequate ventilation, through such items as exhaust fans or hoses are provided. Gasoline exhaust from the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause loss of consciousness and may lead to death.

1.3.2 DO NOT smoke while operating machine.

1.3.3 DO NOT smoke when refueling engine.

1.3.4 DO NOT refuel hot or running engine.

1.3.5 DO NOT refuel engine near open flame.

1.3.6 DO NOT spill fuel when refueling engine.

1.3.7 DO NOT run engine near open flames.

1.3.8 ALWAYS refill fuel tank in well-ventilated area.

1.3.9 ALWAYS replace fuel tank cap after refueling.

1.3.10 ALWAYS check fuel lines and fuel tank for leaks and cracks before starting engine.

1.3.11 DO NOT run machine if fuel leaks are present or fuel lines are loose.

1.4 Service Safety

 Poorly maintained equipment can become a safety hazard! In order for the equipment to operate safely and properly over a long period of time, periodic maintenance and occasional repairs are necessary.

1.4.1 DO NOT attempt to clean or service machine while it is running. Rotating parts can cause severe injury.

1.4.2 DO NOT crank a flooded engine with the spark plug removed on gasoline-powered engines. Fuel trapped in the cylinder will squirt out the spark plug opening.

1.4.3 DO NOT test for spark on gasoline-powered engines, if engine is flooded or the smell of gasoline is present. A stray spark could ignite fumes.

1.4.4 DO NOT use gasoline or other types of fuels or flammable solvents to clean parts, especially in enclosed areas. Fumes from fuels and solvents can become explosive.

1.4.5 ALWAYS keep area around muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite them, starting a fire.

1.4.6 ALWAYS replace worn or damaged components with spare parts designed and recommended by Tomahawk Power.

1.4.7 ALWAYS disconnect spark plug on machines equipped with gasoline engines, before servicing, to avoid accidental start-up.

1.4.8 ALWAYS keep machine clean and labels legible. Replace all missing and hard-to-read labels. Labels provide important operating instructions and warn of dangers and hazards.

1.4.9 ALWAYS check for damaged parts before each use. Carefully check that the equipment will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the screed with a damaged part.

1.4.10 ALWAYS inspect the machine prior to placing in storage and before re-use. Store the machine in a dry, secure place out of the reach of children when not in use.

1.4.11 ALWAYS use only accessories that are recommended by the manufacturer for use with the machine. Accessories that may be suitable for one machine may create a risk of injury when used with the machine.

2. PRODUCT DETAILS

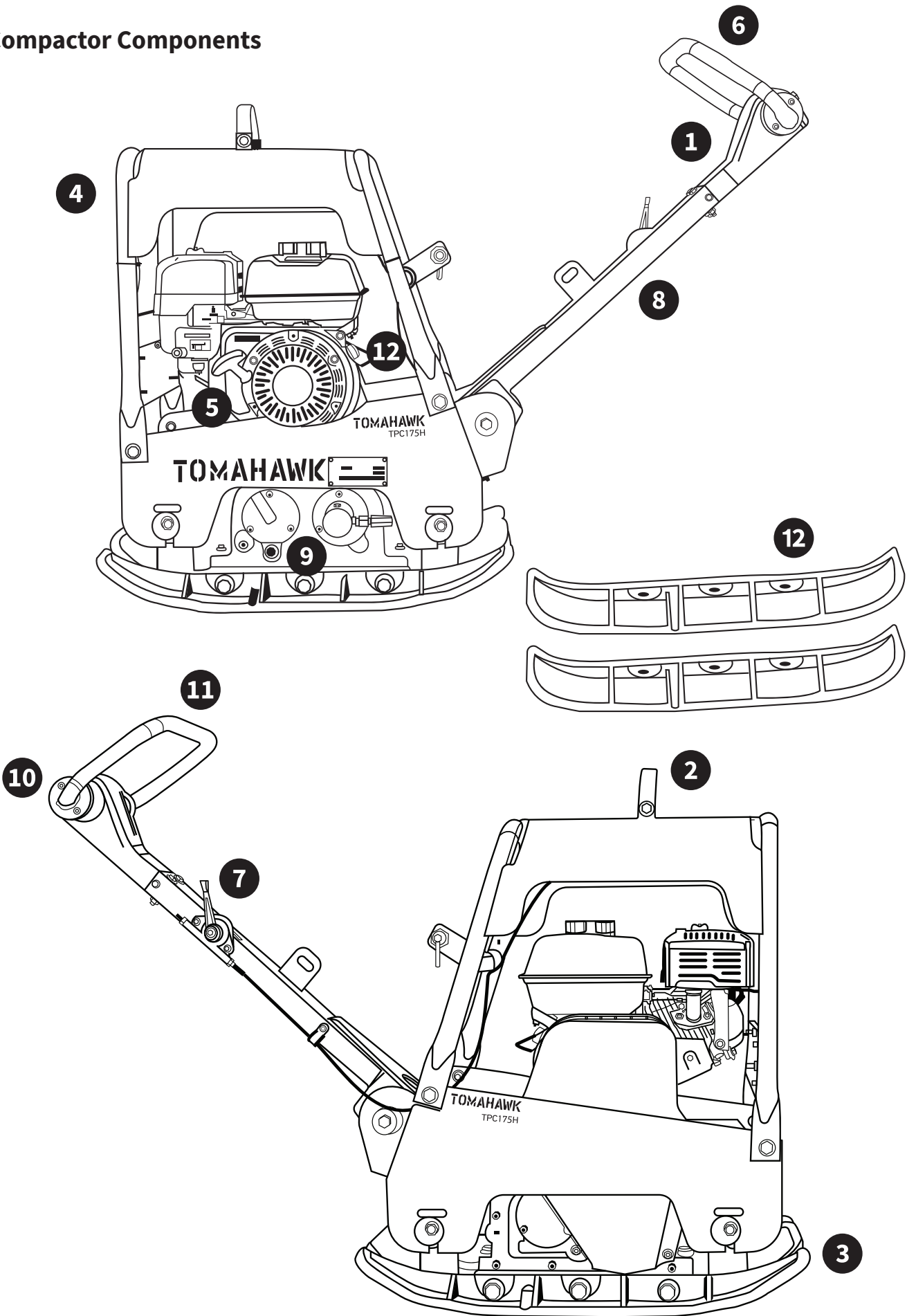
2.1 Compactor Description

Powered by a 6.5HP Honda Engine, the TPC175H reverse plate compactor is perfect for retaining walls, trenchwork, and more. Designed with a 17 in. x 28 in. plate. Operating at 6,100 lbs/ft, the TPC175H compacts cohesive and granular soils up to 28 inches!

2.2 Specifications

MODEL	TPC175H
Engine	Honda GX200
Power	6.5 HP
Plate Size	17" x 28"
Plate Size with Extension	17" x 28"
Compaction Force	6,100 lbs/ft
Centrifugal Force	27 kn
Vibration Frequency	90 hz
Travel Speed	65 ft/min
Drive	Hydraulic
Fuel Tank Capacity	3.1 Liter
Oil Capacity	0.6 Liter
Oil Type	SAE10W-30
Hydraulic Oil Type	Shell Tellus Oil #32 or Equivalent
Packaged Dimensions	19" x 30" x 47"
Packaged Weight	365 lbs

2.3 Compactor Components



1. Hydraulic Pump (Oil Reservoir): Regulates hydraulic oil flow produced by the direction of the control lever.

2. Lifting Hook: When lifting of the compactor is required either by forklift, crane, etc., tie rope or chain around this lifting spot.

3. Vibrating Plate: A flat, open plate made of durable cast iron construction used in the compacting of soil.

4. Front Cover: Open to access engine and other components.

5. Engine: This plate compactor uses a 4-stroke series gasoline engine. Refer to the owner's manual for engine information.

6. Direction Control Lever: Push the lever forward to move compactor in a forward direction. Pull the lever backwards to move compactor in backwards direction. Placing the lever in the middle (midway) will cause the compactor not to move (neutral).

7. Throttle Lever: Controls speed of the plate compactor. Place straight vertically to start, push fully counterclockwise for full throttle and fully clockwise to stop plate compactor.

8. Handle Bar: When operating the compactor, this handle is to be in the downward position. When the compactor is to be stored, move the handle bar to the upright position.

9. Vibration Case Oil Filter: Used to add oil to the vibration case.

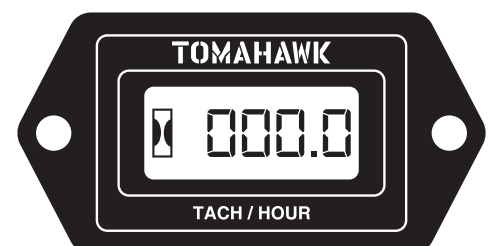
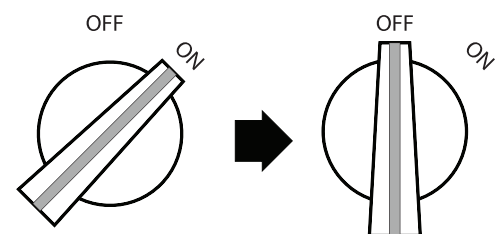
10. Breather Plug: Allow pressure to escape to the air in the form of a gas from heat.

11. Hand Grip: When operating the compactor use this hand grip to maneuver the compactor.

12. Engine ON-OFF Switch: Used to turn the engine on or off.

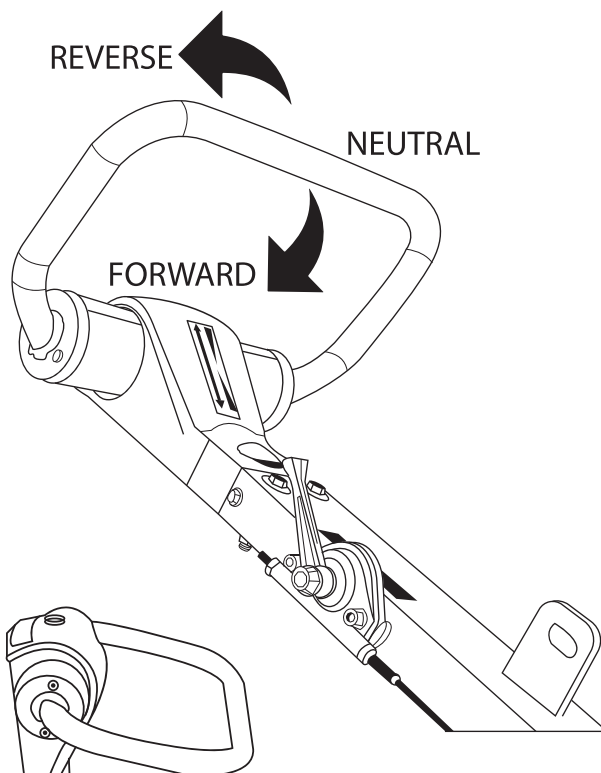
13. Extension Plates: The extension plates add an additional 2" on either side of the plate

14. Tachometer (Optional): Enhance your plate compactor experience with the optional tachometer, providing real-time RPM readings for precise control and performance monitoring. Call the Tomahawk Support Team at (866) 577-4476 for more information.



2.4 Understanding The Control Lever

The direction control handles allows the machine to be moved either backward or forward. When the direction control lever is pushed forward, the machine moves forward. When pulled backward, the machine moves backward.



2.5 Connecting the Extension Plates

The extension plates add an additional 2" on either side of the plate, extending the working width of the compactor.

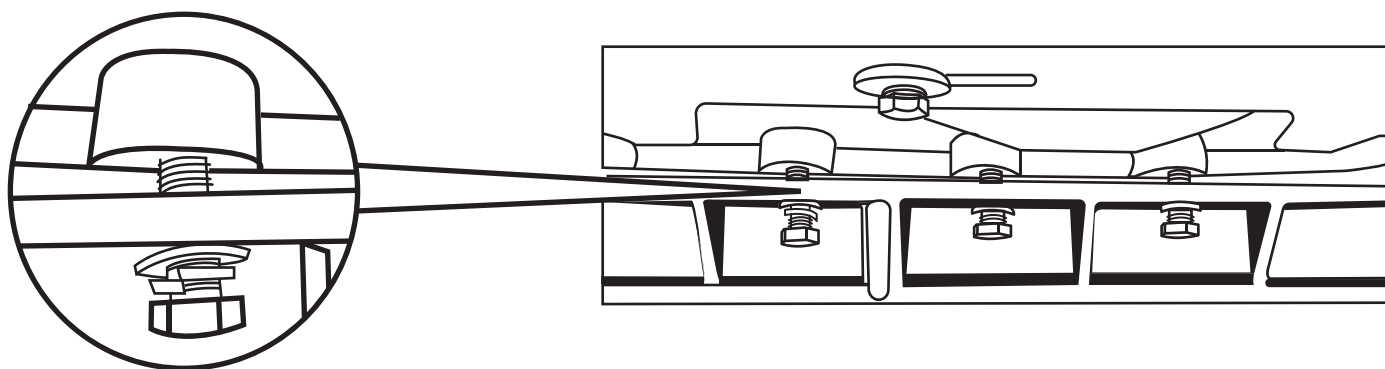
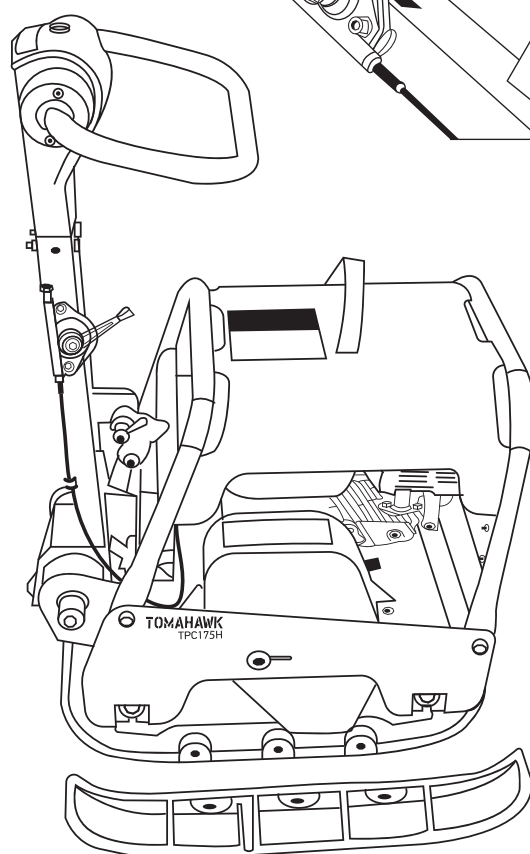
Installing the Extension Plates

A) Start by aligning the extension plates next to the compactor.

B) Place the split lock washer and washer around the bolt.

C) To fasten the bolts, use a 22mm torque wrench and set to 136ft/lbs. (185Nm).

D) We recommend using Loctite if you intend to leave the extension plates on the reverse plate compactor.



3. OPERATION

3.1 Recommended Fuel

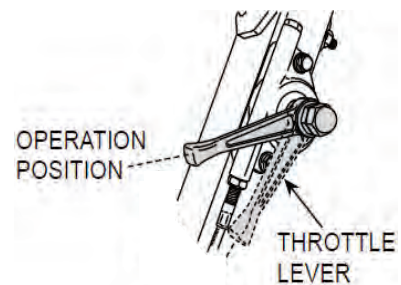
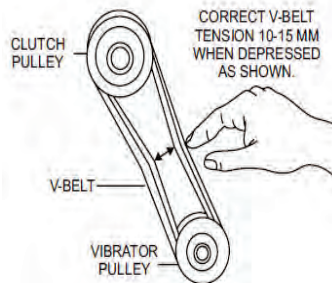
The engine requires regular grade unleaded gasoline, 87 octane or higher. Use only fresh, clean gasoline. Gasoline containing water or dirt will damage fuel system. Consult engine owner's manual for complete fuel specifications.

3.2 Before Starting

Read and understand safety and operating instructions at beginning of this manual.

3.2.2 Check:

- Oil level and fuel levels
- V-Belt tension
- Handles / Control Lever
- Tightness of external fasteners
- Condition of fuel lines
- Condition of air filter
- Condition of fuel lines



3.3 Starting the Engine

3.3.1 Open fuel valve by moving lever to the “ON” position (A).

NOTE: If engine is cold, move choke lever to close position. If engine is hot, set choke to open position (B).

3.3.2 Move the engine switch to the “ON” position (C).

3.3.3 Move the throttle lever to the run position (D).

3.3.4 Pull starter rope (E).

NOTE: If the oil level in the engine is low, the engine will not start. If this happens, add oil to engine. Some engines are equipped with an oil alert light that will come on while pulling the starter rope.

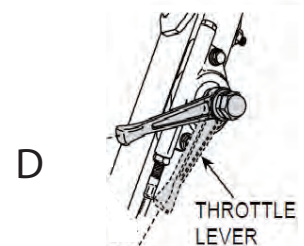
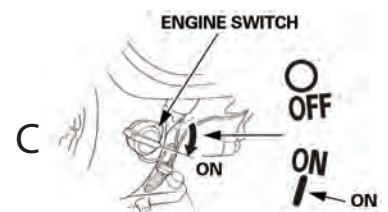
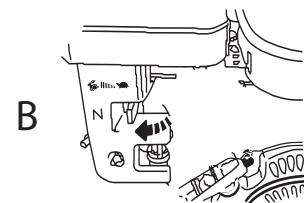
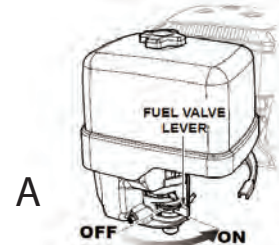
3.3.5 Open throttle fully to operate.

3.4 Stopping the Engine

3.4.1 Move the throttle lever to the MIN. position (D).

3.4.2 Turn the engine switch to the OFF position (C).

3.4.3 Turn the fuel valve lever to the OFF position (A).



3.5 Application

This plate is designed for compacting patchwork on asphalt, cohesive soils, granular soils, sticky soils (clay or slit), gravel, sand, or mixed soils. It is designed to compact cohesive and granular soils up to 28 inches, while its self-cleaning, open base plate minimizes rock and dirt build up.

3.6 Operation

3.6.1 Run engine at full throttle and allow plate to pull itself along at its normal speed. When operating on an incline it may be necessary to assist plate by pushing it forward slightly. Depending on the material being compacted, three or four passes are recommended to achieve the best compaction.

While a certain amount of moisture in the soil is necessary, excessive moisture may cause soil particles to stick together and prevent good compaction. If soil is extremely wet, allow it to dry somewhat before compacting.

3.6.2 If soil is so dry as to create dust clouds while operating plate, some moisture should be added to the ground material to improve compaction. This will also reduce service to the air filter.

When using the plate on paving stones, attach a pad to the bottom of the plate to prevent chipping or grinding surface of the stones. A special polyurethane pad designed for this purpose is available as an optional accessory.



CAUTION

DO NOT operate plate on concrete or on extremely hard, dry, compacted surfaces. The plate will jump rather than vibrate and could damage both plate and engine.

4. MAINTENANCE

4.1 Cleaning the Plate

Clean the plate after use to remove dirt, stones, and mud caught under the engine console. If plate is being used in a dusty area, check engine cylinder cooling fins for heavy dirt accumulation. Keep engine cylinder fins clean to prevent engine from overheating.

4.2 Periodic Maintenance

The chart below lists basic engine maintenance. Refer to engine manufacturer's Operation Manual for additional information on engine maintenance.

	Daily before starting	After first 20 hours	Every 2 weeks or 50 hours	Every month or 100 hours	Every year or 300 hours
Check fuel level.	●				
Check engine oil level.	●				
Inspect fuel lines.	●				
Inspect air filter. Replace as needed.	●				
Check and tighten external hardware.	●				
Check and adjust drive belt.		●	●		
Clean air cleaner elements.			●		
Inspect shockmounts for damage.			●		
Change engine oil.		●		●	
Clean engine cooling fins.				●	
Clean sediment cup / fuel filter.				●	
Check and clean spark plug.				●	
Check and adjust valve clearance.					●
Change exciter oil.					●

4.3 Adding Exciter Box Oil

Vibrator oil should be inspected after every 100 hours of operation and should be replaced either every 300 hours or at least once annually. To check and/or replace oil, follow these steps.

4.3.1 Remove the plug on the exciter box.

4.3.2 Check that the oil level reaches the bottom thread on the oil plug hole.

4.3.3 Top off the oil as necessary. Tomahawk recommends Shell Tellus Oil #32 or equivalent oil.

4.3.4 Return the plug and fasten it tightly.

4.4 Spark Plug (Fig. 5)

Clean or replace the spark plug as needed to ensure proper operation. Refer to the engine owner's manual.

The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Do not touch the muffler while it is hot.

NOTE: Refer to the Technical Data for the recommended spark plug type and the electrode gap setting (page 6).

- 4.4.1** Remove spark plug and inspect it.
- 4.4.2** Replace plug if the insulator is cracked or chipped.
- 4.4.3** Clean spark plug electrodes with a wire brush.
- 4.4.4** Set the electrode gap (a).
- 4.4.5** Tighten spark plug securely.



A loose spark plug can become very hot and may cause engine damage.

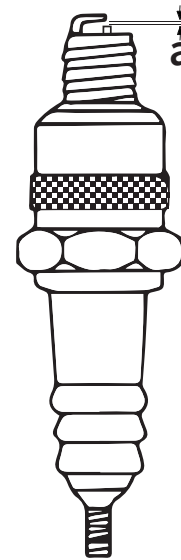


Fig. 5

4.5 Engine Oil (Fig. 6)

- 4.5.1** Drain oil while the engine is still warm.
- 4.5.2** Remove the oil fill plug (a) and drain plug (b) to drain oil.
- 4.5.3** Install drain plug.
- 4.5.3** Fill the engine crankcase through the oil opening (b), to the upper mark on the dipstick (c). Do not thread in the dipstick to check the level. See Technical Data for oil quantity and type (page 6).
- 4.5.4** When the crankcase is full, reinstall the dipstick.

NOTE: In the interests of environmental protection, place a plastic sheet and a container under the machine to collect any liquid which drains off. Dispose of this liquid in accordance with environmental protection legislation.

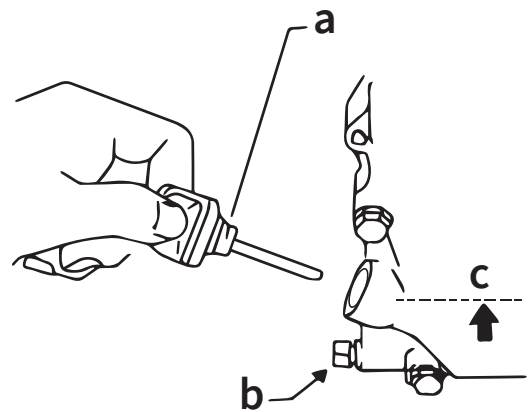


Fig. 6

4.6 Air Filter (Fig. 7)



NEVER use gasoline or other types of low flash point solvents for cleaning the air filter. A fire or explosion could result.



NEVER run engine without air filter: Severe engine damage will occur and a fire or explosion could result.

The engine is equipped with a dual element air cleaner. Under normal operating conditions, elements should be cleaned once every week. Under severe, dry and dusty conditions, the elements should be maintained daily. Replace an element when saturated with dirt that cannot be removed.

4.6.1 Remove the air cleaner cover (a). Remove both elements and inspect them for holes or tears. Replace damaged elements.

4.6.2 Wash the foam element (b) in a solution of mild detergent and warm water. Rinse it thoroughly in clean water. Allow the element to dry thoroughly.

4.6.3 Tap the paper element (c) lightly to remove excess dirt or blow compressed air through the filter from the inside out. Replace the paper element if it appears heavily soiled.

4.7 Cleaning Ait Filter Cup (Fig. 8)

4.7.1 Turn fuel valve off.

4.7.2 Remove sediment cup (a) and O-ring (b).

4.7.3 Wash both thoroughly in a nonflammable solvent. Dry and reinstall them.

4.7.4 Turn fuel valve on and check for leaks.

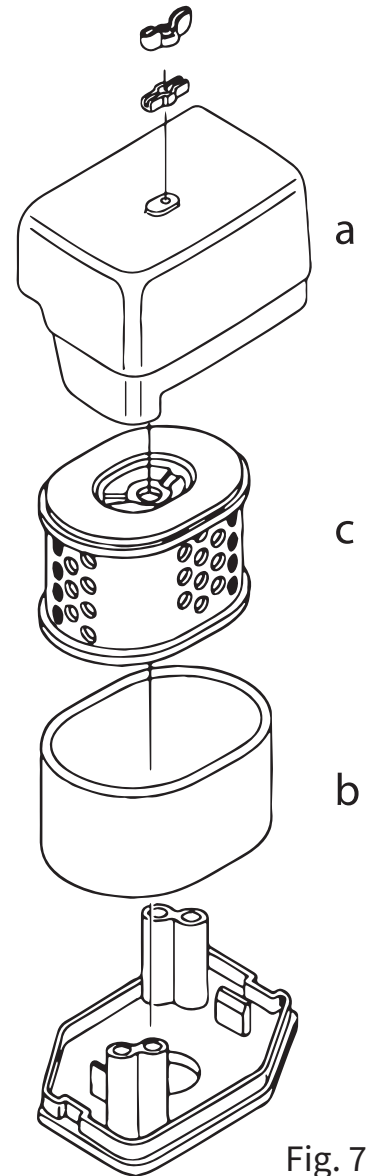
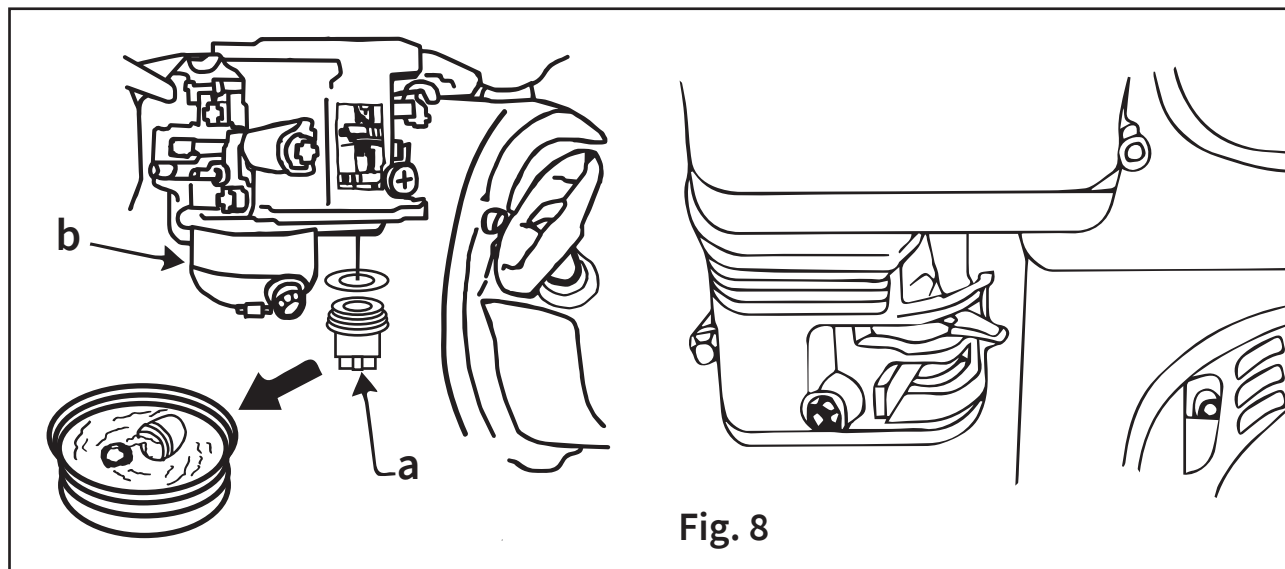


Fig. 7



4.8 Carburetor Adjustment (Fig. 9)

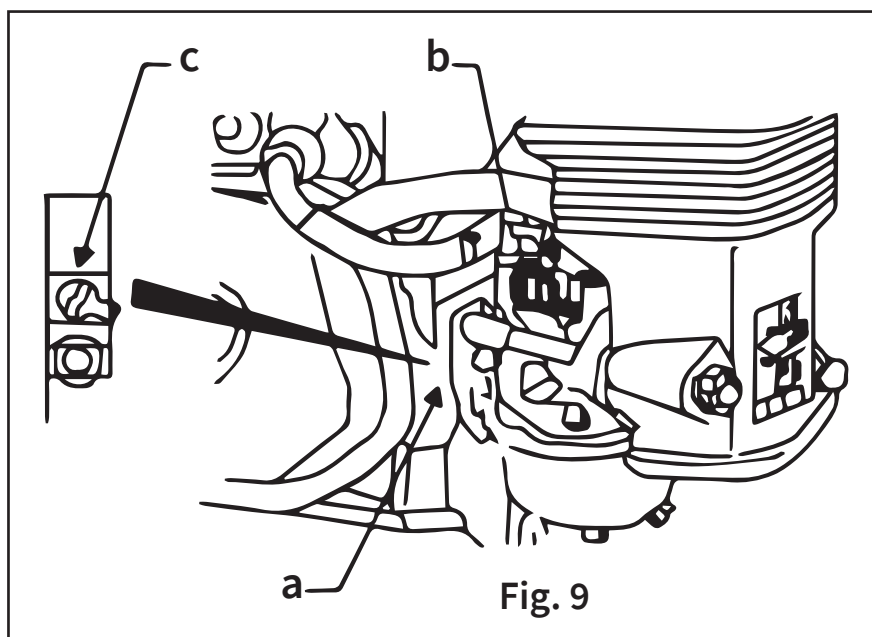
4.8.1 Start the engine and allow it to warm up to operating temperature.

4.8.2 Set the pilot screw (a) 2 turns out. See Note.

4.8.3 With the engine idling, turn the pilot screw (a) in or out to the setting that produces the highest rpm.

4.8.4 After the pilot screw is adjusted, turn the throttle stop screw (b) to obtain the standard idle speed. See Technical Data.

NOTE: On some engines the pilot screw is fitted with a limiter cap (c) to prevent excessive enrichment of the air-fuel mixture in order to comply with emission regulations. The mixture is set at the factory and no adjustment should be necessary. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the pilot screw.



4.9 Hydraulic Oil

4.9.1 To refill or replace the hydraulic oil, start with the handle in vertical position, remove the plug cap with a 17mm wrench at the top.

4.9.2 Drain the hydraulic oil.

4.9.3 Once the oil has been drained, add 300cc of hydraulic oil.

4.9.4 Remove the air releasing plug from the vibrator cylinder. As you do so, oil will start coming out of the air releasing plug. Wait until the air bubbles cease, then reattach and tighten the plug securely.

4.9.5 Before attaching the breather plug, ensure that the hydraulic oil in the pump is at the appropriate oil level.



CAUTION

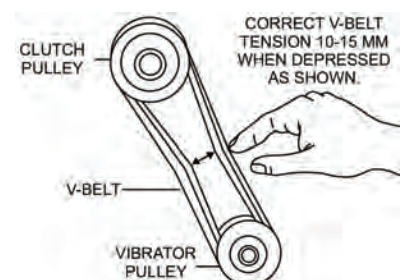
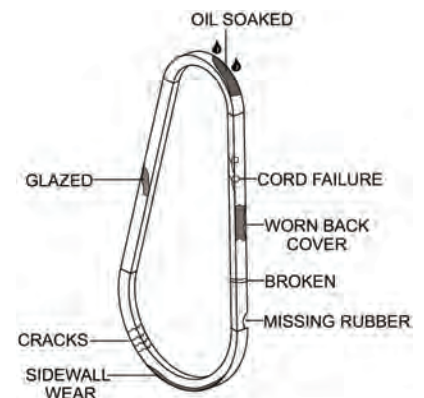
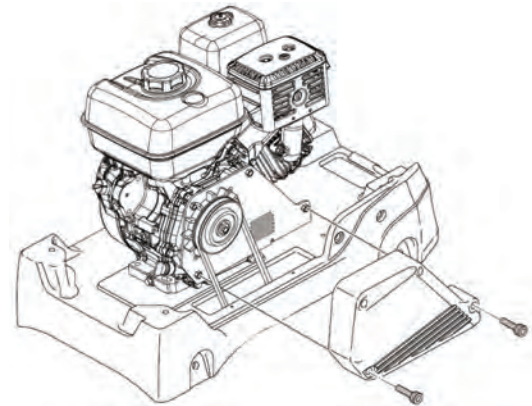
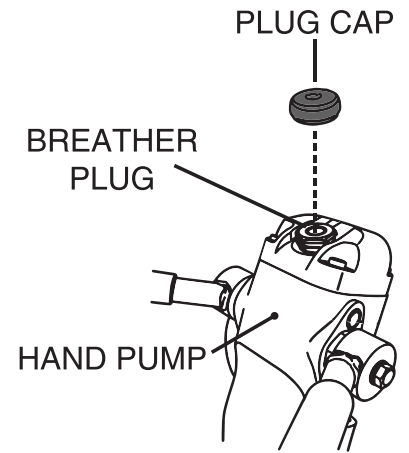
DO NOT exceed OIL LEVEL of hydraulic oil. If the level is higher, oil will burst out from the breather plug.

4.10 Tightening the V-Belt

4.10.1 To examine the V-Belt, detach the bolts that fasten the belt cover to the frame.

4.10.2 Visually inspect the V-Belt for signs of cracks, fraying, missing rubber, peeling, or any other damage. Check if the belt appears oil soaked or has a glazed appearance (hard and shiny on the sides). These conditions can cause the belt to overheat, weaken, and increase the risk of breakage. If any of these wear conditions are present, promptly replace the V-Belt.

4.10.3 The V-belt tension is correct if, when pressed with a finger at the midpoint between the clutch and vibrator pulleys, it bends approximately 10 to 15 mm.



5. TROUBLESHOOTING

Problem / Symptom	Reason / Remedy
Plate does not develop full speed, not moving Poor compaction	A) Engine throttle control is not completely open. B) Throttle control is not adjusted correctly. C) Ground is too wet, plate sticking. Allow soil to dry before compacting. D) Drive belt is loose or worn, slipping on pulleys. Adjust or replace belt. Check that the engine mounting bolts are tight. E) Exciter bearings binding. Check condition and level of oil in exciter. Add or change oil. F) Air filter is clogged with dust, reducing engine performance. Clean or replace air filter. G) Engine speed is too low. Check the engine speed with tachometer. Adjust or repair engine to run at correct the speed. Refer to engine manual. H) Check hydraulic lines. Clear lines or air.
Engine running, no vibration	Engine throttle is not open. Drive belt is loose or broken. Adjust or replace. Clutch is damaged. Inspect and replace clutch. Engine speed is low. Check engine speed. Too much oil in exciter. Adjust oil to the correct level.
Plate jumps or compacts unevenly	Ground surface is too hard. Shockmounts loose or damaged.

6. STORAGE

If the plate compactor is being stored for more than 30 days:

6.1 Storage Tips

6.1.1 Remove loose stones and dirt from plate.

6.1.2 Clean engine cylinder cooling fins.

6.1.3 Clean or replace air filter.

6.1.4 Change exciter oil.

6.1.5 Change engine oil and follow storage procedures described in the engine manual.

6.1.6 Cover plate and engine and store in a clean, dry area.

7. EQUIPMENT WARRANTY

Your new TOMAHAWK® equipment is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The TOMAHAWK® warranty is against defects in design, materials and workmanship.

The following are not covered under the warranty:

7.1.1 Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.

7.1.2 Alterations, additions or repairs carried out by persons other than TOMAHAWK® or their recognized agents.

7.1.3 Transportation or shipment costs to and from TOMAHAWK® or their recognized agents, for repair or assessment against a warranty claim, on any machine.

7.1.4 Materials and/or labor costs to renew, repair or replace components due to fair wear and tear.

7.1.5 TOMAHAWK® and/or their recognized agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

7.2 Warranty Claims

Before submitting any warranty claim, you will need to register your new TOMAHAWK® equipment through www.tomahawk-power.com or email support@tomahawk-power.com.

Follow the steps on page 3 or scan this QR codes to complete the equipment registration. After registration is complete, all warranty claims should firstly be directed to TOMAHAWK® through the online Service Request form found at www.tomahawk-power.com/pages/service-request.



8. SERVICES CENTERS

Our service centers are equipped to handle your equipment maintenance and repair needs efficiently. With a network of authorized local service locations, you can find expert support and genuine parts needed to keep your equipment running smoothly. All locations are listed on the webpage <https://tomahawk-power.com/pages/find-a-service-center>.

For Service Call (866) 577- 4476

9. MORE COMPACTION TIPS

9.1 Soil Drop Test: Soil preparedness refers to the “wetness” of the dirt or soil. Soil needs to be 50% dry and 50% wet, before starting compaction. A simple “hand test” can determine this. Pick up a handful of soil with your hand and squeeze the dirt. Observe whether the soil is powdery or if it breaks apart when dropped. If the soil does break apart, it means that it is too dry. If the soil keeps together in one piece when dropped, it is ready for compaction.

9.2 Soil Testing: Testing: The function of this step is to measure the density of an aggregate material to ensure the increase of density when driving out air. At a low moisture content level, there are more soil particles assembling together. In order to determine if the soil is compacted properly, there are several methods.

9.2.1 Soil Testing: Test strips are useful to determine the method of compaction and understand how many passes of your plate compactor are needed to achieve the optimum compaction. Every layer of compacted soil meets a specific percentage on the proctor curve. Through soil testing, it is possible to identify optimum moisture. Soil testing measures the soil density compared to the degree of compaction specifications, as well as the effect of the moisture.

A common laboratory method called the Proctor Compaction Test can be used to determine the optimal moisture content for a given soil type. The goal of this method is to understand the soil’s maximum dry density. A second method of soil testing is known as the California Test 216 and is used to find the relative compaction of untreated and treated soils.

Four factors account for optimum compaction including lift thickness, pressure, and soil moisture content. During the compaction process, the soil's moisture adds density and lubricates soil particles, until there is a maximum dry unit weight without voids in the soil. The table below explains the different outcomes and properties of fill materials.

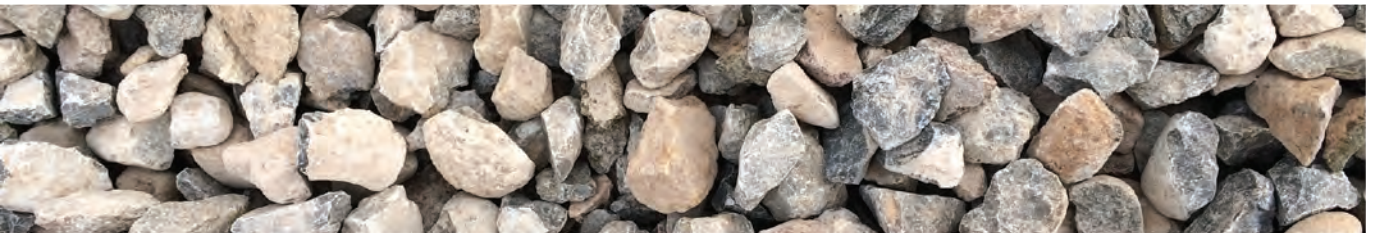
Properties of Different Fill Materials			
	Foundation Support	Permeability	Compaction Difficulty
Gravel	Excellent	Very High	Very Easy
Sand	Good	Medium	Easy
Silt	Poor	Medium Low	Somewhat Difficult
Clay	Moderate	None	Very Difficult

9.3 Compaction Terms

9.3.1 Cohesive soils: Clays and mixes have a particular particle size of less than .003” or .002” and are typically classified as cohesive soils. This type of soil is primarily used for retaining pond beds and mound fills. These soils are dense due to the strongly bound molecular attraction. Cohesive soils and water will not mix easily, but only once the soils are moist it will feel sticky.



9.3.2 Granular soils: These soils have particle sizes of .003” or greater, like sand. Water drains easily through the soils particles of granular soils. The larger the particles, the larger the equipment needed to achieve lower frequencies and higher compaction force. Plate compactors are typically the best option for compacting granular soils - however, depending on the vibration frequency and particle size, reversible plate compactors and double drum rollers may be more appropriate for this type of work.



9.3.3 Mixed soils: Sometimes soils can be a mixture of both types, cohesive and granular. Thus choosing the appropriate compaction equipment is more difficult. We recommend testing your equipment to match the best machine to the desired job.



9.4.4 Static Force: Found in the deadweight of machines, static force applies pressure downward on soil surfaces. As a result, soil particles compress in the topsoil layer.

9.4.5 Vibratory Force: This force is engine-driven, creating a downward force, in addition to the machine's static weight. Vibrations compress the soil material closer together to increase density.

9.4.6 Types of Compaction: There are four types of compaction that can be applied to soils or asphalt. Each one takes place using one of the two types of the forces explained above (static or vibratory).

A. Vibration: Periodic motion of particles with rotating weight in opposite directions from a position of equilibrium.

B. Impact: An action of one object coming into contact with another.

C. Kneading: Force is applied by alternating movement in adjacent positions.

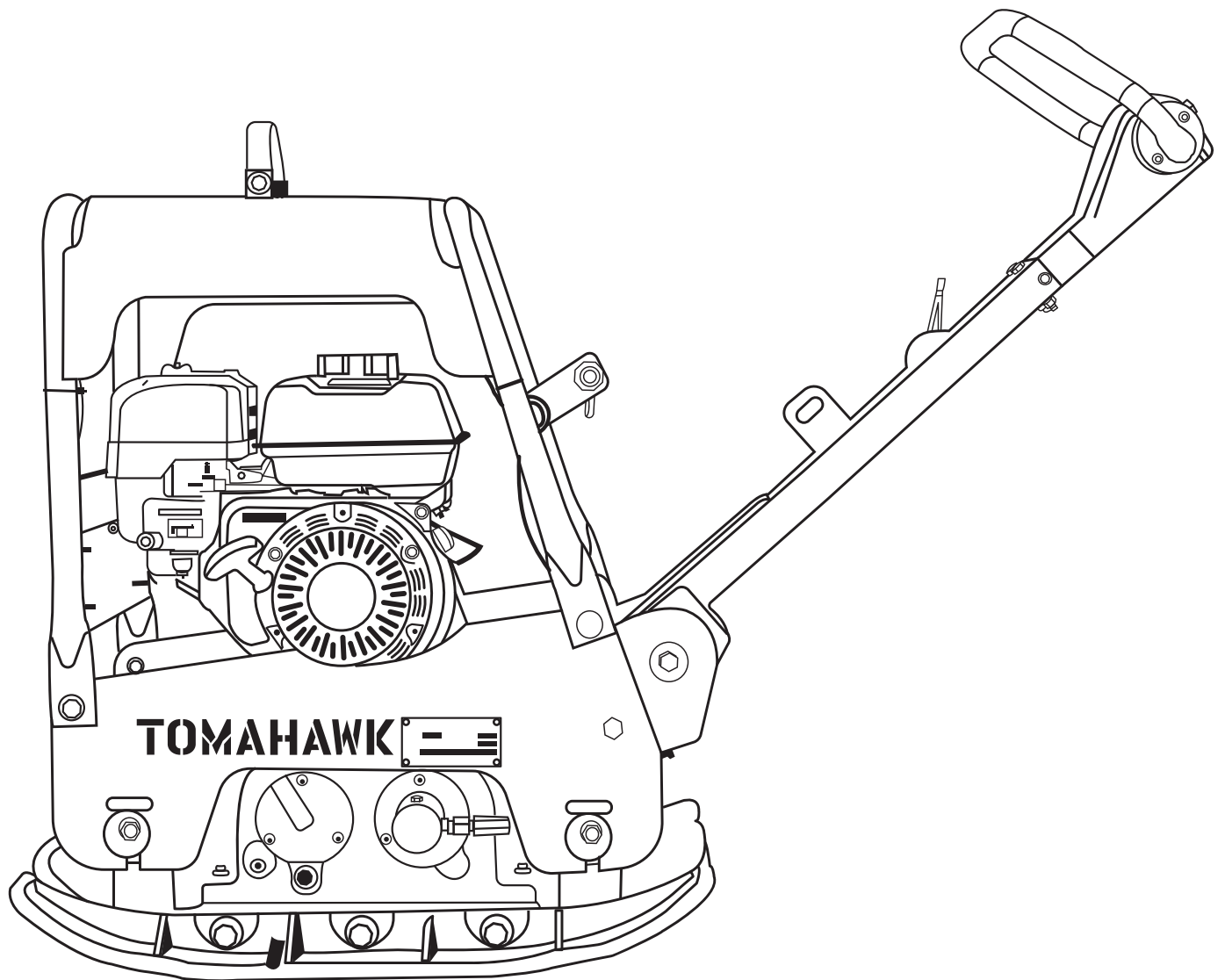
D. Pressure: The process of continuous physical force against solid materials.

TOMAHAWK

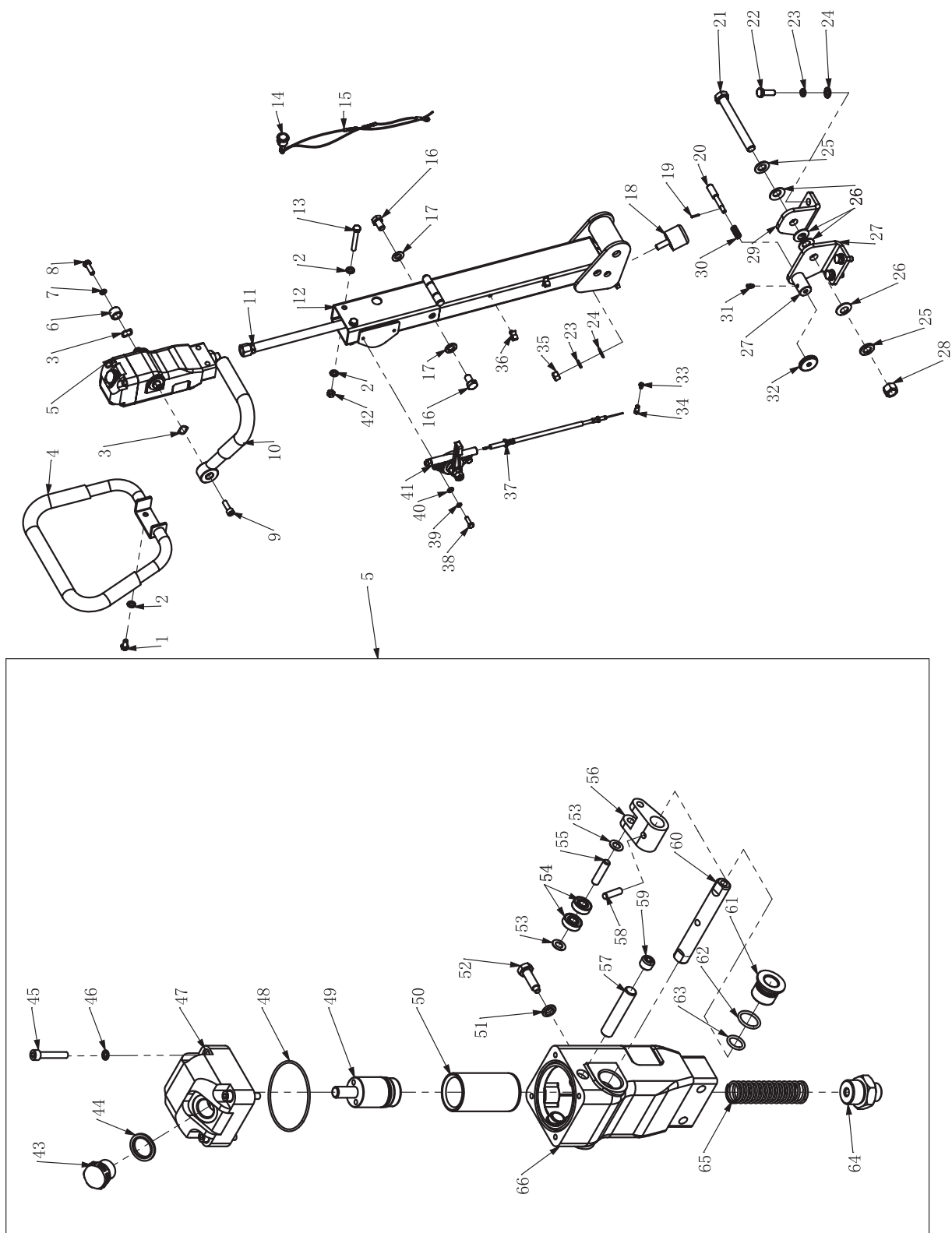
REVERSE HYDRAULIC PLATE COMPACTOR

MODEL NUMBER: TPC175H

Parts Manual

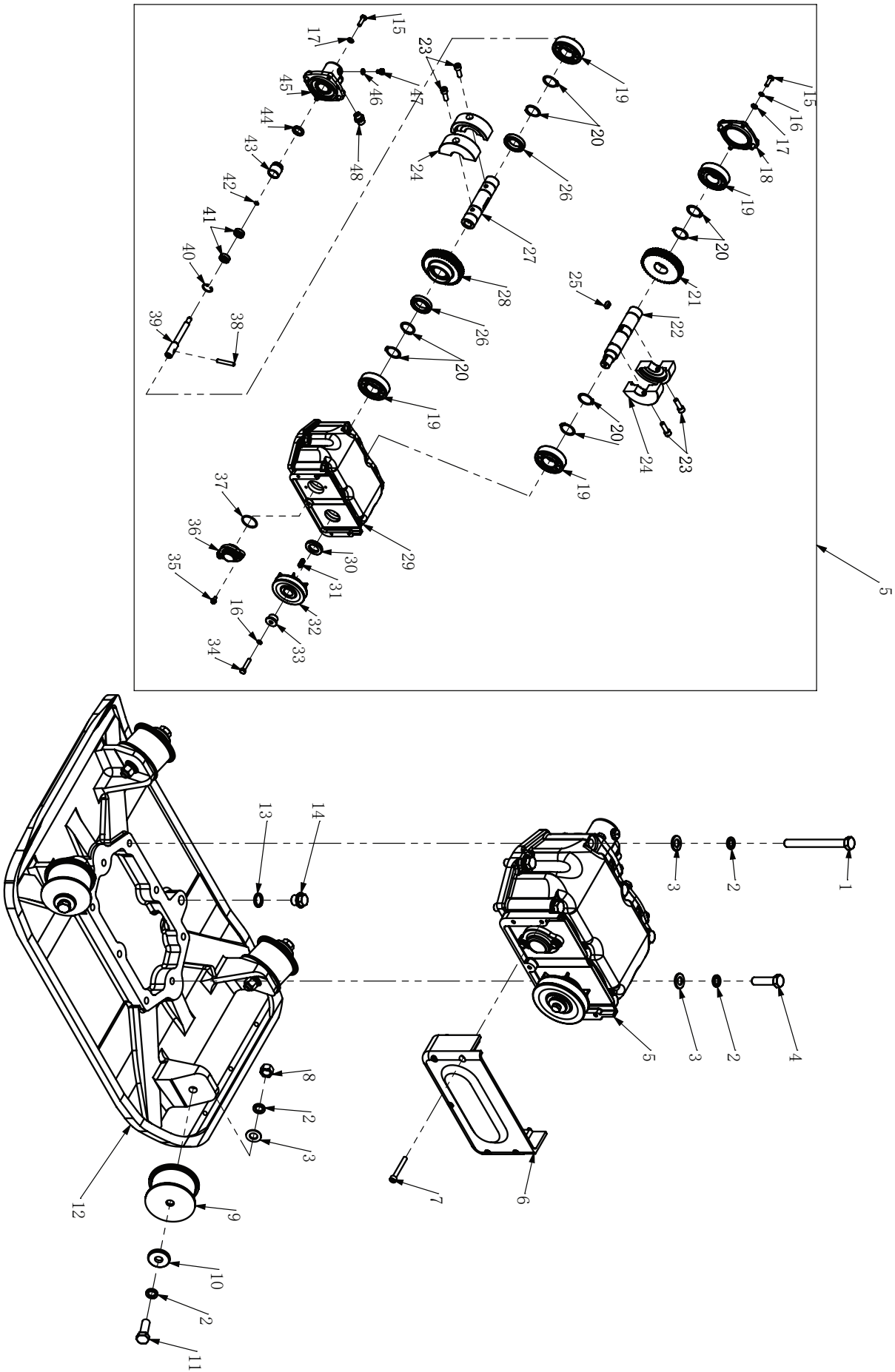


1. CONTROL



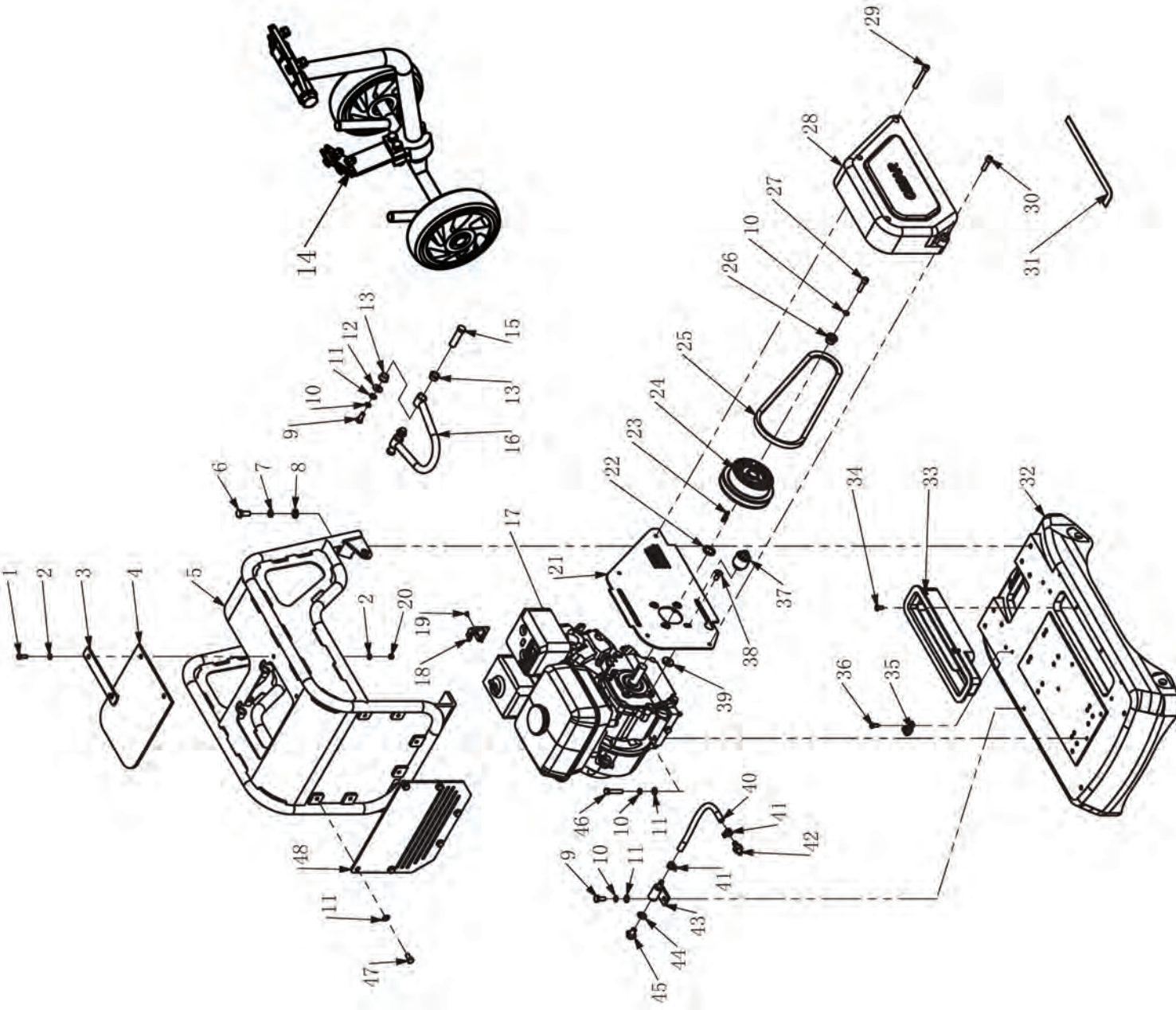
No.	Description	Qty	No.	Description	Qty
1	Bolt M8x16	2	34	Lock Nut	1
2	Washer M8	6	35	Lock Nut M10	1
3	Wave Washer	2	36	Wire Clip	2
4	Handle Grip	1	37	Trottle Wire	1
5	Handle Pump Assy.	1	38	Bolt M6x20	2
6	Collar	1	39	Spring Washer M6	2
7	Spring Washer M8	1	40	Washer M6	2
8	Bolt M8x25	1	41	Trottle Lever Assy.	1
9	Allen Screw M8x25	1	42	Lock Nut M8	2
10	Travel Lever	1	43	Breather Cap	1
11	Oil Hose	1	44	Sealing M20	1
12	Handle Assy.	1	45	Allen Screw M6	4
13	Bolt M8	2	46	Spring Washer M6	4
14	Switch	1	47	Cover, Handle Pump	1
15	Wire	1	48	O-Ring	1
16	Bolt M12	2	49	Piston CP	1
17	Washer M12	2	50	Bush	1
18	Shock Absorber, Handle	1	51	Spacer M8	1
19	Spring Pin	1	52	Bolt M8	1
20	Pin	1	53	Nylon Washer	2
21	Bolt M16	1	54	Bearing	2
22	Bolt M10x30	4	55	Pin	1
23	Spring Washer M10	5	56	Can	1
24	Washer M10	5	57	Stopper	1
25	Washer M16	2	58	Pin	1
26	Wave Washer	4	59	Plug	1
27	Handle Bracket (R)	1	60	Shaft	1
28	Lock Nut M16	1	61	Bush	2
29	Handle Bracket (L)	1	62	O-Ring	2
30	Spring	1	63	O-Ring	2
31	Grease Inlet	1	64	Hose Joint	1
32	Knob	1	65	Spring	1
33	Bolt M5	1	66	Body, Handle Pump	1

2. VIBRATOR AND PLATE



No.	Description	Qty	No.	Description	Qty
1	Bolt M6x20	2	26	Washer	1
2	Washer M6	4	27	Allen Screw M8	1
3	Plate, Rubber Cover	1	28	Belt Cover Out	1
4	Rubber Cover	1	29	Allen Screw M8	3
5	Frame	1	30	Allen Screw M8	1
6	Bolt M10x25	4	31	Sponge Sealing	1
7	Spring Washer M10	4	32	Engine Base	1
8	Washer M10	4	33	Dust Cover	1
9	Bolt M8x20	3	34	Allen Screw M6	2
10	Spring Washer M8	8	35	R Clamp	1
11	Washer M8	13	36	Bolt M6	1
12	Washer M8x22x2	2	37	Belt Tesioner	1
13	Bush	4	38	Allen Screw M8	4
14	Wheel Kits	1	39	Washer M8x26x4	4
15	Pin	2	40	Drain Hose	1
16	Hook	1	41	Clamp	2
17	Engine	1	42	Hose Joint	1
18	Exhaust Outlet	1	43	Plug	1
19	Bolt M4	2	44	Washer M10x1	1
20	Lock Nut M6	2	45	Plug	1
21	Belt Cover Plate	1	46	Bolt M8x40	4
22	Spacer	1	47	Bolt M8x16	6
23	Key 5x30	1	48	Front Cover	1
24	Clutch Assy.	1	49	Bracket	1
25	Belt	1	50	Wheel	2
			51	Stopper	2

3. ENGINE AND FRAME



No.	Description	Qty	No.	Description	Qty
1	Bolt M6x20	2	26	Washer	1
2	Washer M6	4	27	Allen Screw M8	1
3	Plate, Rubber Cover	1	28	Belt Cover Out	1
4	Rubber Cover	1	29	Allen Screw M8	3
5	Frame	1	30	Allen Screw M8	1
6	Bolt M10x25	4	31	Sponge Sealing	1
7	Spring Washer M10	4	32	Engine Base	1
8	Washer M10	4	33	Dust Cover	1
9	Bolt M8x20	3	34	Allen Screw M6	2
10	Spring Washer M8	8	35	R Clamp	1
11	Washer M8	13	36	Bolt M6	1
12	Washer M8x22x2	2	37	Belt Tesioner	1
13	Bush	4	38	Allen Screw M8	4
14	Wheel Kits	1	39	Washer M8x26x4	4
15	Pin	2	40	Drain Hose	1
16	Hook	1	41	Clamp	2
17	Engine	1	42	Hose Joint	1
18	Exhaust Outlet	1	43	Plug	1
19	Bolt M4	2	44	Washer M10x1	1
20	Lock Nut M6	2	45	Plug	1
21	Belt Cover Plate	1	46	Bolt M8x40	4
22	Spacer	1	47	Bolt M8x16	6
23	Key 5x30	1	48	Front Cover	1
24	Clutch Assy.	1	49	Bracket	1
25	Belt	1	50	Wheel	2
			51	Stopper	2

TOMAHAWK

Equipment Guide

COMPACTION



HONDA
ENGINES

HONDA
EGX

Wheel Kit Available



Rammers

Part#:	*Battery Powered Option Available
TR68H	3,550 lbs/sq ft, Honda GX120
JX60H	3,350 lbs/sq ft, Honda GX100
eJX60H	3,350 lbs/sq ft, Honda GXE2.0S



HONDA
ENGINES

Wheel Kit Available

Forward Plate Compactors

Part#:	*Battery Powered Option Available
TPC80H	3,000 lbs/sq ft, Honda, 21"x17" Plate
TPC85H	3,200 lbs/sq ft, Honda, 23"x17" Plate
TPC90H	3,400 lbs/sq ft, Honda, 22"x20" Plate



HONDA
ENGINES

Reverse Plate Compactors

Part#:	
TPC100H	3,500 lbs/sq ft, Honda, 19"x14" Plate
TPC170H	7,000 lbs/sq ft, Honda, 28"x20" Plate
TPC400H	11,690 lbs/sq ft, Honda, 32"x22" Plate

CONCRETE



HONDA
ENGINES

Power Screeds

Part#:	*Battery Powered Option Available
TVSA-H	6-16 ft Magnesium Blades Honda GX35, Adjustable Handles
eTVSA	6-16 ft Magnesium Blades 36V/5 Ah Battery, Adjustable Handles



Concrete Sprayers

Part#:	TCS6.5	Adjustable from 0-450 PSI
Handles 30% + Solids, 1.8 HP 2 Stroke Motor, 24"		
Brass Wand 0.5 GPM, Fan Nozzle Included,		
Spray 15,000 ft² in 10 Minutes		



HONDA
ENGINES

Early Entry Saws

Part#:	
TFS6H	6" Blade Diameter, Blade Compatibility, Honda GX120
TFS10H	10" Blade Diameter, Self Propelled, Blade Compatibility, Honda GX270/GX390

TROWELS



HONDA
ENGINES



Porta-Trowels

Part#:	JXPT30H	Lightweight at 56 lbs
Adjustable 18 ft Extension Bull Float Poles		
30" Diameter, 4-Blade Assembly, Honda GX35		
Adjustable Blade Pitch from 0-28°		



HONDA
ENGINES

FAST
PITCH
WAGMAN

Walk Behind Trowels

Part#:	Items Listed Includes Combo Blades	
TPT24H	2 ft Edger, Honda GX160, 0-28° Blade Pitch	
TPT36H	3 ft, Honda GX160/GX270, 0-28° Blade Pitch	
TPT46H	4 ft, Honda GX270/GX390, 0-28° Blade Pitch	



VANGUARD

HATZ

WAGMAN

Ride on Trowels

Part#:	
TRT46V	8 ft Hydraulic Steer, 35 HP Vanguard, CVT Clutch, 180 RPM
TRT60V	10 ft Full Hydrostatic, 74 HP Hatz Diesel

HAVE QUESTIONS?

Contact us. *We're here to help!*

(866) 577-4476

Email us at sales@tomahawk-power.com



TOMAHAWK

Equipment Guide

GENERATORS

QUIET INVERTER SERIES



58 db

2,000 - 4,500 Watt Series

TG2000i	2,200w Max / 2,000w Rated
TG3000i	3,300w Max / 3,000w Rated, 120/220V, 30 AMP Twist Lock
TG4500iEFI	4,500w Max / 3,800w Rated 20A (120V), Electric, Remote

QUIET INVERTER SERIES



92 db

4,000 - 7,000 Watt Series

TG4000H	4,000w Max / 3,500w Rated, Honda Engine
TG5500i	5,500w Max / 5,000w Rated, 120/220V
TG7000H	7,000w Max / 6,500w Rated, Honda Engine

QUIET INVERTER SERIES



63 db

10,500 - 17,000 Watt Series

TG9000i	10,500w Max / 8,500w Rated 120/220V, Run Time 14.5hrs @ 25% Load
TG17000i	17,000w Max / 14,500w Rated 120/240V, Run Time 14hrs @ 25% Load, CARB Compliant, GFCI, CO Detector, Voltage Selector, Electric Start

FLOORING

Assorted Blade Choices



Grinders and Scrapers

Part#:	10" Disc, 120V, 1/32" Per Pass, 11 AMP, 1.5 HP, 1,725 RPM
TGDR10	
TSCP8	8" Blade, 120V, 11 AMP, 3/4 HP, 1,725 RPM, Carpet & Tile Remover

Assorted Blade Choices



Concrete Scarifier

Part#:	*Battery Powered Option Available
TSCAR8H	Honda GX160, 350 - 500ft ² /hr, OSHA Compliant Vacuum Port, 8" CT Drum Kit, 1/8" Per Pass
eTSCAR8	2.3HP, 2800 RPM, 350 - 500ft ² /hr, OSHA Compliant, 1/8" Per Pass

Assorted Brush Choices



Floor Sweepers

Part#:	*Battery Powered Option Available
TOS38	38" Working Width, Triple Broom System, 14.5 Gallons
eTOS30	30" Working Width, Battery Powered Triple Broom System, 13.5 Gallons

OUTDOOR POWER



Trash Water Pumps

Part#:	2" Pump, Honda GX160, 164 GPM, Elevation: 85ft, Suction: 26ft
TW2H	
TW3H	3" Pump, Honda GX270, 375 GPM, Elevation: 89ft, Suction: 25ft
TW4H	4" Pump, Honda GX390, 580 GPM, Elevation: 91ft, Suction: 26ft



Backpack Foggers

Part#:	*Battery Powered Option Available
eTMD14	4 Gal. Tank, 0.7 kW/7.5 Ah, 2hrs @ 1/2 Load, 1hr at Full Load, Spray Reach of 25 - 30ft, 100 - 300 microns, 400 CFM / 150 MPH Air Speed
TMD14	3.7 Gal. Tank, Tomahawk 3HP 2 Stroke Engine, Horizontal Reach: 40ft, Vertical Reach: 25+ft, 50-100 microns, 490 CFM / 220 MPH Air Speed



Fertilizer Spreaders

Part#:	*Battery Powered Option Available
eTGS30	5 Gal. Tank, 0.7 kW/7.5 Ah, 36V, Spray Reach of 25 - 30 ft, Up to 2 hrs at Half load, 1 hr at Full Load, 2 Hours Charge Time
TGS30	4 Gal. Tank, Powered by Tomahawk 3HP 2 Stroke Engine, Horizontal Reach of 30 ft, Displacement of 63.3 cc, MPA of 1.0 - 2.5

ASSEMBLED IN THE

USA

PARTS SOURCED GLOBALLY

(866) 577-4476

www.tomahawk-power.com



Power Your World

Tomahawk understands to keep a job-site running smoothly the proper equipment and spare parts are needed at the drop of a hat. With same day shipping and faster delivery times, count on Tomahawk to keep you powered throughout the day! With long lasting parts and engines, Tomahawk equipment will be the star of your fleet for years to come. Visit www.tomahawk-power.com to get started today!

TOMAHAWK

TOMAHAWK®, LLC
San Diego, CA

Sales Support

(866) 577-4476

sales@tomahawk-power.com

Equipment Support

(866) 577-4476

support@tomahawk-power.com

www.tomahawk-power.com



FACEBOOK

facebook.com/TomahawkPowerUSA

YOUTUBE

youtube.com/TomahawkPower

INSTAGRAM

[@tomahawkpower](https://instagram.com/tomahawkpower)