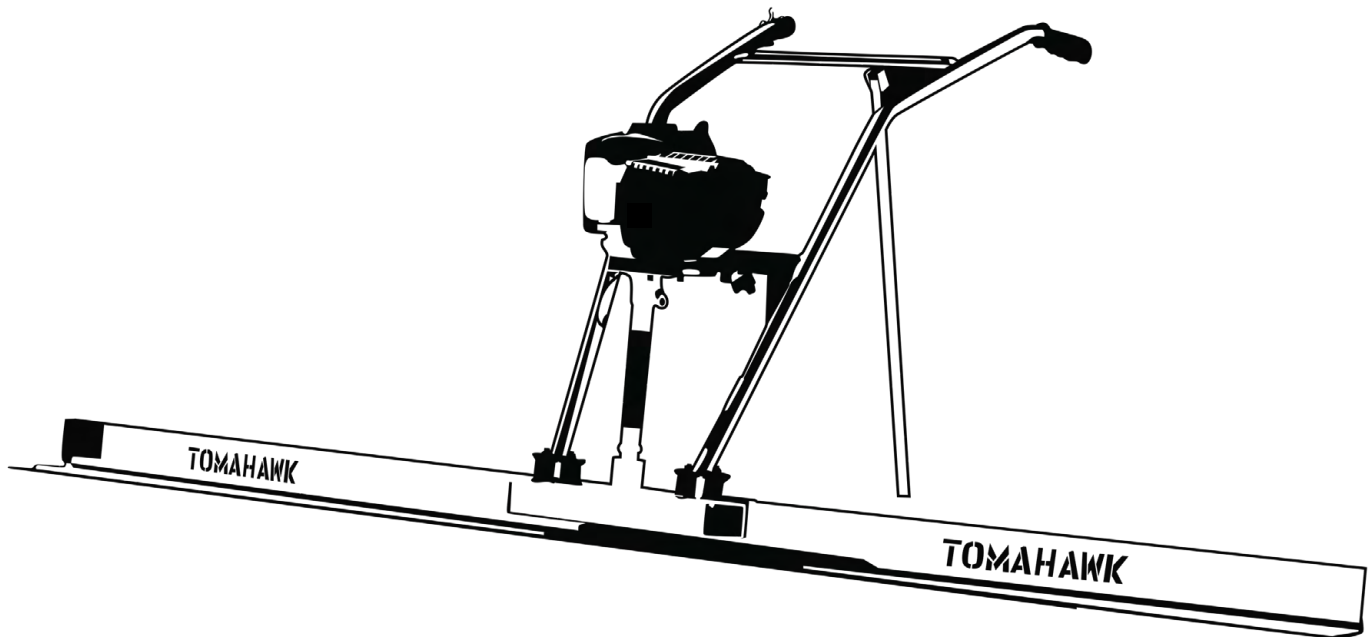


# TOMAHAWK

TVSA-T  
POWER SCREED

Operation Manual



SCAN FOR ASSEMBLY GUIDE



HOW TO VIDEOS, MANUALS,  
FINISHING GUIDES, & MORE

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# 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](http://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

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# 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](http://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](http://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](http://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.

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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 ANSI Z87.1-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! 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 screed 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 screed prior to placing in storage and before re-use. Store the screed 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 screed. Accessories that may be suitable for one Screed may create a risk of injury when used with the screed equipment.

**1.4.12 ALWAYS** keep boards clean when not in use and guards in place and in working order.

## 2. Technical Data

### 2.1 Screed Board Data

For more board sizes and bundle discounts, visit [www.tomahawk-power.com](http://www.tomahawk-power.com).

Board Model	Length	Width	Height	Weight	Assembly Type
TSB4-P	4 ft (1224.4 mm)	5.9 in (149 mm)	3.15 in (80 mm)	8.6 lbs (3.9 kg)	Bolt & Nut
TSB6-P	6 ft (1824.5 mm)	5.9 in (149 mm)	3.15 in (80 mm)	10.1 lbs (6.1 kg)	Bolt & Nut
TSB8-P	8 ft (2438.4 mm)	5.9 in (149 mm)	3.15 in (80 mm)	13.7 lbs (6.2 kg)	Bolt & Nut
TSB10-P	10 ft (3048 mm)	5.9 in (149 mm)	3.15 in (80 mm)	17.2 lbs (7.8 kg)	Bolt & Nut
TSB12-P	12 ft (3657.6 mm)	5.9 in (149 mm)	3.15 in (80 mm)	20.5 lbs (9.3 kg)	Bolt & Nut
TSB14-P	14 ft (4267.2 mm)	5.9 in (149 mm)	3.15 in (80 mm)	24 lbs (10.9 kg)	Bolt & Nut

## 2.2 Machine Data

<b>Model</b>	TVSA-T
<b>Vibration</b>	7000 VPM
<b>Drive System</b>	Flexible Shaft
<b>Fuel Tank</b>	.5 qt (.5 L)
<b>Displacement</b>	37.7cc
<b>Engine Type</b>	Air-cooled 4-stroke OHC
<b>Bore x Stroke</b>	39 mm x 30 mm
<b>Displacement</b>	35.8 cm <sup>3</sup>
<b>Net Power Output*</b>	1.3 HP (1.0 kW) @ 7,000 rpm
<b>Net Torque</b>	1.2 lb-ft (1.6 Nm) @ 5,500 rpm
<b>PTO Shaft Rotation</b>	Counterclockwise (from PTO shaft side)
<b>Compression Ratio</b>	8.0:1
<b>Starting System</b>	Recoil
<b>Fuel Type</b>	Unleaded 89 octane or higher
<b>Fuel Tank Capacity</b>	0.67 U.S. qt (.63 liter)
<b>Oil Required</b>	SAE10W-30 or SAE10W-40
<b>Oil Tank Capacity</b>	3.4 US oz (100cc)
<b>Dimensions</b>	36" x 25" x 40" (91 x 63 x 101 cm)
<b>Weight</b>	42 lbs (19kg)

## 3. Before Starting

### 3.1 Recommended Fuel

The engine requires regular grade unleaded gasoline, 89 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 Starting Checklist

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

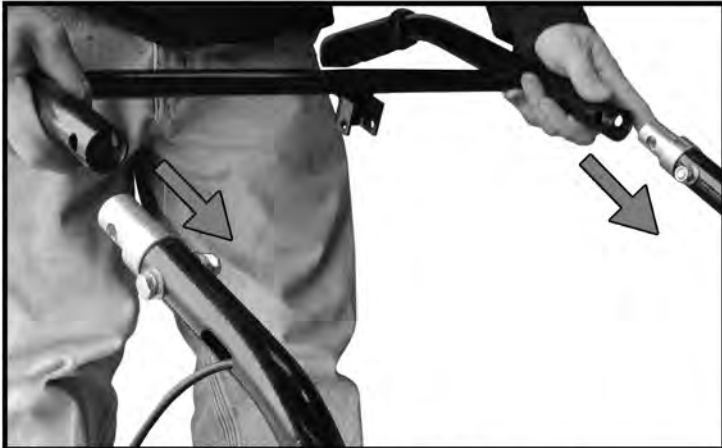
- Oil level in engine
- Fuel level
- Condition of air cleaner
- Tightness of external fasteners



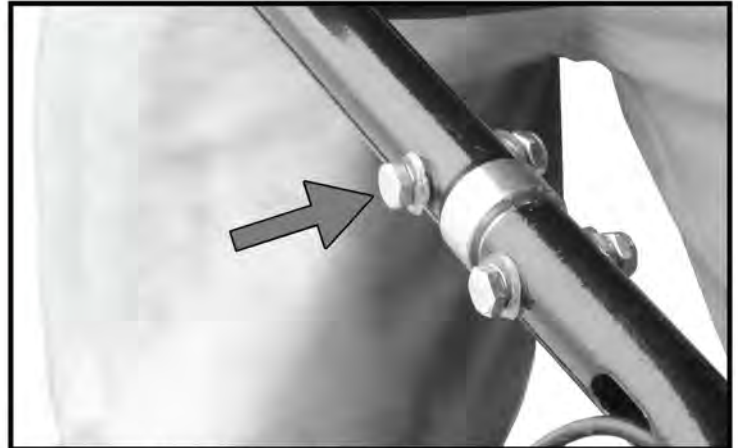
# TOMAHAWK

## TVSA-T: Assembly 1

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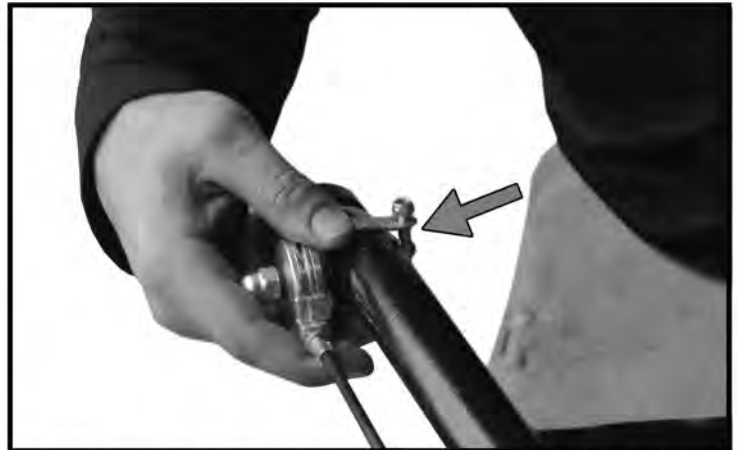
**1** Connect the handgrip bar bars over the screed frame.



**2** Feed each bolt through a washer and into the handgrip/screed frame.



**3** Secure the bolt with a nut and washer tightly. Repeat Steps 2-3 on the other handle.



**4** Secure the throttle control to the right handle. Feed a bolt through the back. Tighten with a nut.



### Kickstand Assembly

**5** Feed a bolt through the frame and into the kickstand bar and two washers. Tighten with a nut.



**6** Using the kick stand, raise up your assembled power screed.

# TOMAHAWK

## TVSA-T: Assembly 2

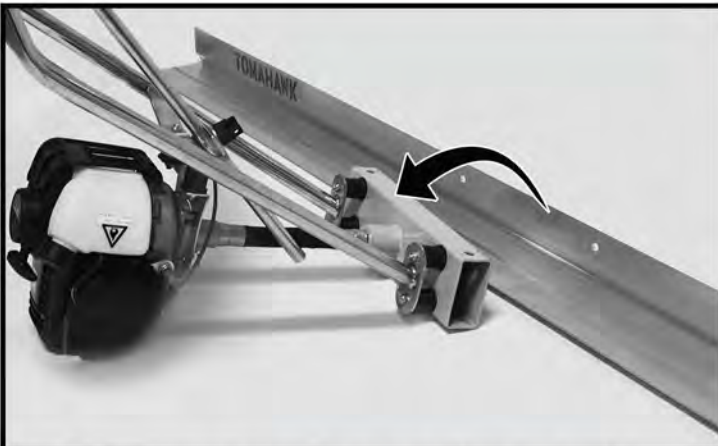
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**1** Remove all parts from the packaging. (You may not need all pieces for assembly).



**2** Remove the bolts and washers from the base of the machine.



**3** Tip the engine onto its front\*, then flip the screed blade on top, matching up the holes.



**4** Feed the bolts through the base and blade.



**5** Fasten the bolts and washers tightly. (A 3/4" socket is recommended for a secure fit).



**6** Flip the screed back to the upright position and add fuel for the best results.

\*\* This screed's engine has an oil capacity of 3.4 oz. DO NOT overfill the engine as this could create excess engine smoke and further damage.

## 5. Operation

**5.1** Perform all steps in sections 3.1; 3.2; and 3.3.

**5.2** To start a cold engine, move the choke lever (Figure 1) to the CLOSED position.

If restarting a warm engine leave the choke lever in the OPEN position.

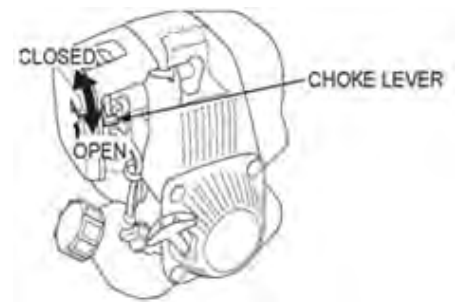
**5.3** Press the priming bulb (Figure 2) repeatedly until fuel can be seen inside the clear fuel lines.

**5.4** Move the throttle lever slightly to give the engine some speed.

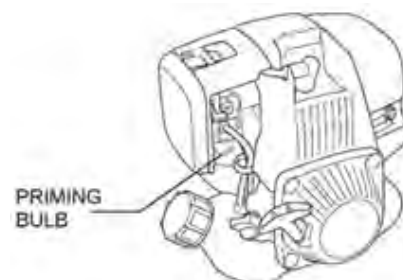
**5.5** Pull the starter rope (Figure 3) lightly until you feel resistance, then pull briskly in the direction of the arrow.

Return the starter rope gently.

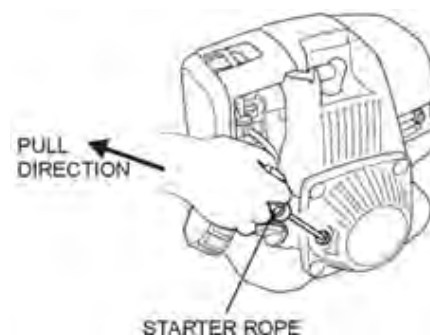
**5.6** Once the engine has started, open the choke and allow engine to idle for 3 to 5 minutes to warm-up.



**Figure 1**



**Figure 2**



**Figure 3**

## 5.2 To Stop

**5.2.1** Reduce the engine speed by moving throttle completely in the opposite direction of the arrow.

**5.2.2** Let the engine idle for 2 - 3 minutes before turning it off.

**5.2.3** Press the emergency stop switch on the handle.

**CAUTION:** In an emergency situation, turn off the engine switch immediately. In normal conditions, do not stop the engine when the screed is at high speed or the engine temperature will rise suddenly, possibly causing engine parts to jam or the oil to deteriorate.

## 5.3 Application

While concrete is being poured, a screed is used to smooth concrete and pull the excess off the back of the form. Utilizing vibratory screeds will achieve the best results, while saving you time and back fatigue.

This screed should be used for smoothing and striking off concrete. For floating concrete, use a Tomahawk 48" Bull Float to level ridges and fill voids left by the screeding operation.

## 5.4 Operation

**5.4.1** Once the engine has started and warmed up, open the throttle fully.

**5.4.2** Slowly move the screed backwards watching for smooth concrete in front of the screed.

## 6. After Each Use

### 6.1 Clean Up

**6.1.1** Clean the screed and screed board. Clean the screed and screed board with water to remove all concrete but take care that the engine does not get wet.

**6.1.2** Clean the engine cylinder cooling fins. A broom or old brush are good tools to remove concrete before it becomes solid.

**6.1.3** Refer to the engine manual for more information about the engine.

## **6.2 Storage**

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

**6.2.1** Clean the screed as described in Section 6.1.

**6.2.2** Remove the board from the screed on Page 10 in the Assembly Guide.

**6.2.3** Drain the fuel tank and run the engine briefly until the fuel in the carburetor is completely consumed.

**6.2.4** Change the engine oil with fresh SAE10W-30 4 Stroke Motor Oil.

**6.2.5** Clean or replace the engine air filter.

**6.2.6** Store the screed and board separately in a clean, dry area.

**6.2.7** Cover the screed and board completely with dry tarp.

## 7. Maintenance

Maintain the screed in accordance with the following recommended procedures. Refer to the engine manufacturer's instruction manual for additional information about engine maintenance. The following chart is based on a normal operation schedule.

	<b>DAILY BEFORE STARTING</b>	<b>AFTER FIRST 20 HOURS OR 3 MONTHS</b>	<b>AFTER FIRST 50 HOURS OR 6 MONTHS</b>	<b>AFTER FIRST 100 HOURS OR EVERY YEAR</b>	<b>AFTER FIRST 200 HOURS OR EVERY 2 YEARS</b>
Check the fuel level	●				
Check the engine oil level	●				
Inspect the fuel lines	●				
Inspect the air filter and replace if needed	●				
Check and tighten the external hardware	●				
Change the engine oil		●			
Clean the air filter			●		
Change the engine oil			●		
Check and clean the spark plug			●		
Clean the fuel strainer				●	
Check and adjust the valve clearance					●
Clean the cylinder head					●
Replace the spark plug					●



## 8. Troubleshooting

Please check the list below before addressing the problems to servicing personnel including local dealer. And if the problem continues after the troubleshooting as described below, call your local dealer for future assistance.

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

### 8.1 Replacement Parts

- For replacement parts and technical questions, please email Customer Service at [support@tomahawk-power.com](mailto:support@tomahawk-power.com) or call (866) 577-4476.
- Not all equipment components are available for replacement. The illustrations within this manual are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following will be required: model number, serial number/lot date code, and description.
- The distributor reserves the right to make design changes and/or improvements to product lines and manuals without notice.

## **9. Limited Warranty**

Tomahawk Power LLC. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Tomahawk product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of 1 year from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, Your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

### ***Limitations on the Warranty***

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

### ***Obligations of Purchaser***

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at (866) 577-4476, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

### ***Remedy Limits***

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.



***Assumption of Risk***

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

***Governing Law***

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of California, without regard to rules pertaining to conflicts of law. The state courts located in San Diego County, California shall have exclusive jurisdiction for any disputes relating to this warranty.

## 10. How to Wet Scream

### 10.1 Set the Elevation of the Slab

**10.1.1** Use grade pins (A) to set the height of the slab. Position in the middle of the pour.

**10.1.2** To set the elevation around the walls, use chalk lines or expansion joints.

**10.1.3** In areas where there are no walls, use form boards to set the elevation.

### 10.2 Make Wet Pads

**10.2.1** Use the float to create wet pads around all of the grade pins (A).

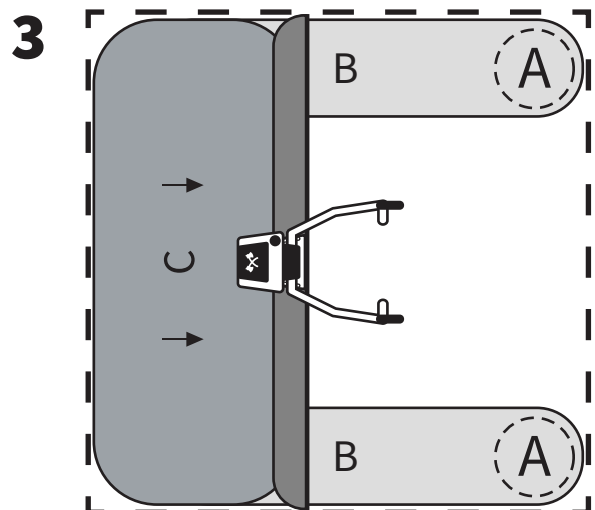
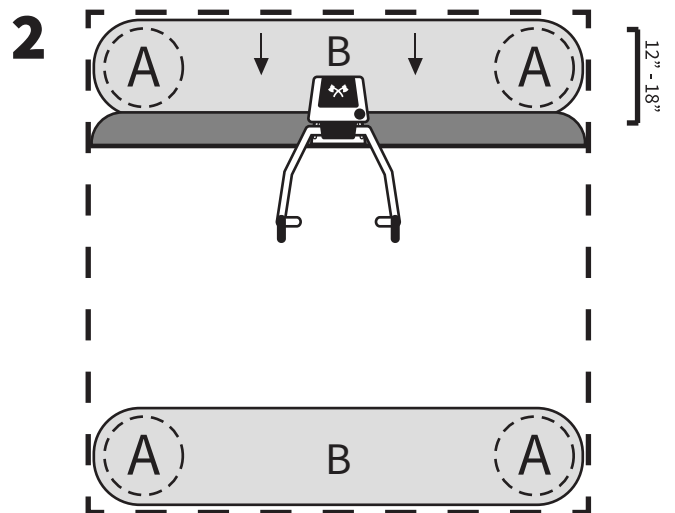
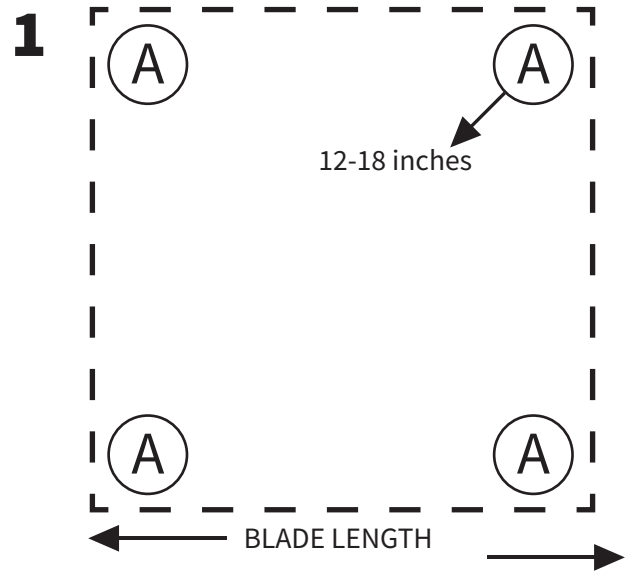
**Make sure that the distance between the wet pads is shorter than the length of the blade being used.**

**10.2.2** Form rows (B) with the blade to smooth from one wet pad to the next.

**10.2.3** After all of the rows are formed, run the screed blade off of the two rows leveling the previously untouched concrete (C) in between.

**Prior to running the blade off, make sure that the height of the concrete in area (C) is slightly taller than the wet pad rows in area (B).**

**10.2.4** Once the floating is completed, the wet pads and concrete will all be smoothed out to the same height.

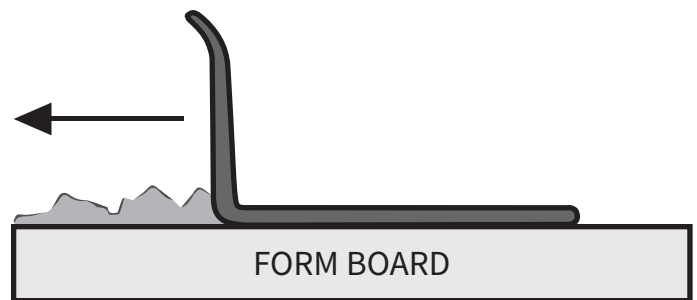
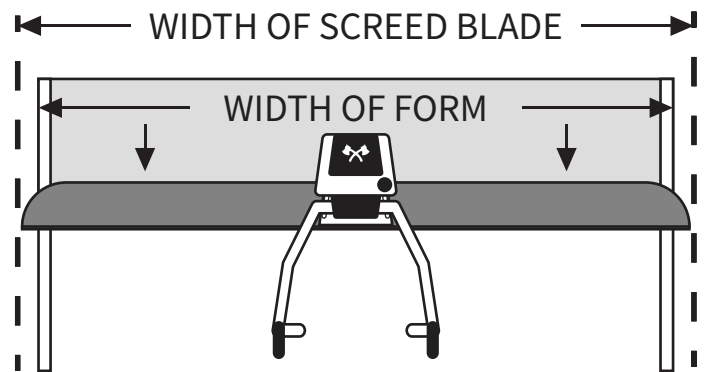


## 11. How to Screed Form to Form

**11.1** In order to screed form to form, the length of the blade should overlap both form boards on each side of the pour.

**11.2** When screeding off of forms, keep the bottom of the blade as flat as possible.

**11.3** Extend the life of your blade by using the lowest vibration setting in relation to the slump of concrete being used.

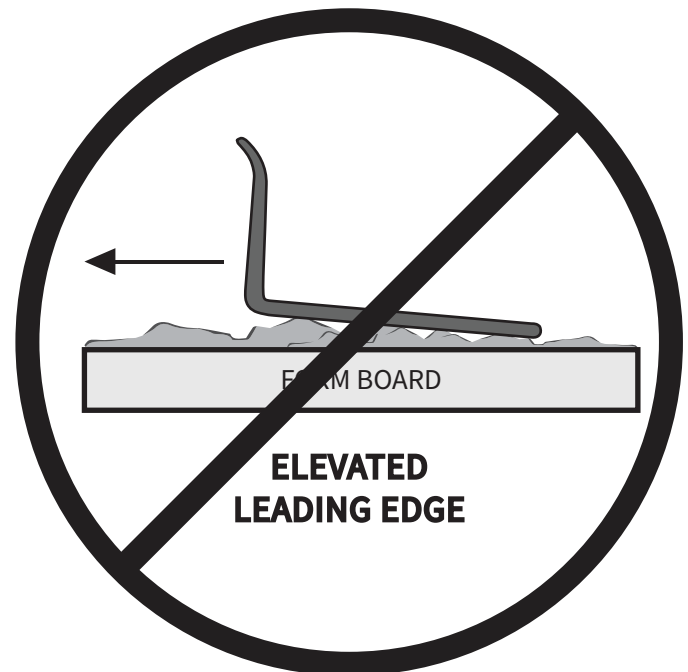


**KEEP SCREED BLADE FLAT**



**ELEVATED  
TRAILING EDGE**

Be aware of elevated **trailing** edges. This can create an area for concrete to build up, resulting in an uneven slab elevation.



**ELEVATED  
LEADING EDGE**

Be aware of elevated **leading** edges. This can trap rocks in between the blade, resulting in an uneven slab elevation.

## 12. Operating on Wet Concrete

### 12.1 Steps

**12.1.1** To begin, pour the concrete inside of the forms, slightly higher than the height of the forms themselves.

**12.1.2** Place the screed on top of the concrete and start the engine.

**Do not begin screeding until the engine is warm and running on its own with the choke OPEN.**

**12.1.3** Increase the engine's RPM until the clutch engages. The screed will then begin to vibrate.

**12.1.4** Start your screeding process by walking backwards. (Review pages 17 and 18 for detailed instructions.)

**12.1.5** While the throttle level does not require consistent contact, you can adjust the engine's RPM and vibration to accommodate your concrete's moisture. Dry or low slump concrete may require high vibrations to level and screed correctly.

**12.1.6** With the concrete in front of the blade, continue walking backwards to level and screed.

**12.1.7** The blade's roll back feature ensures concrete does not slide over the blade. Concrete poured too high may cause the concrete to spill over the blade. If this happens, the screed will become too heavy to pull, resulting in unevenness.

*For detailed instructions on How To Wet Screed and How To Screed Form To Form, refer to pages 17 and 18.*

### **CAUTION: DO NOT OVER-VIBRATE CONCRETE**

Have you used too much vibration? Here's how to know:

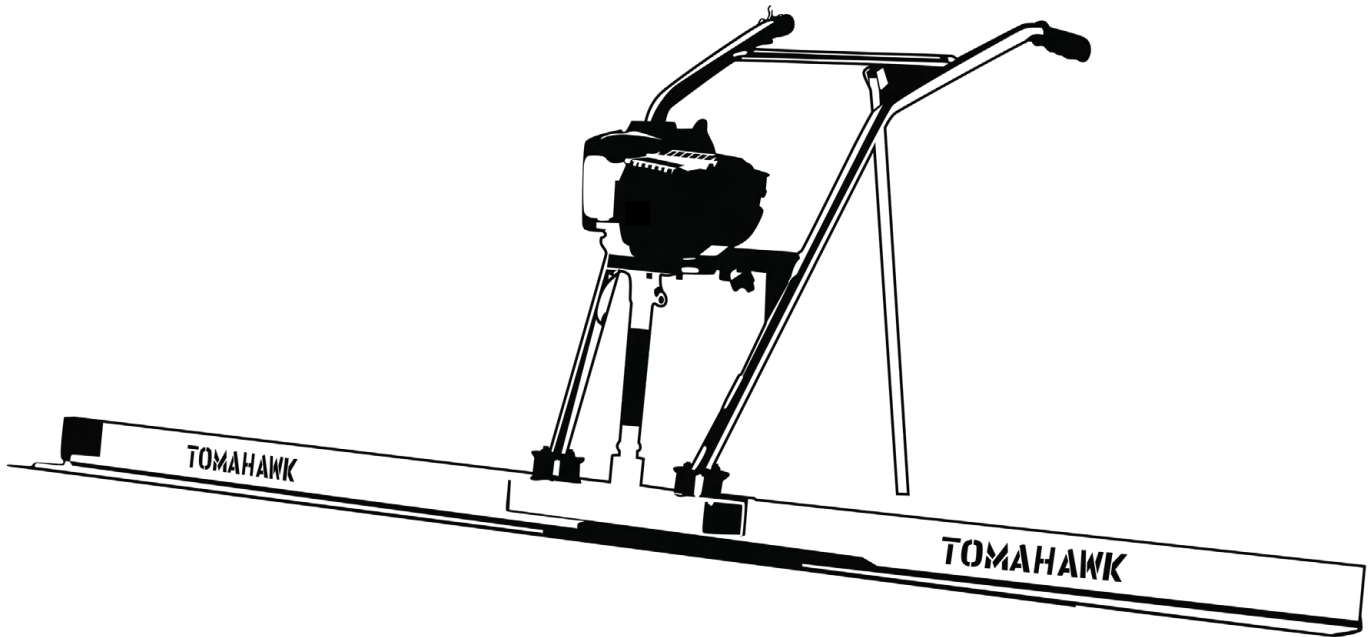
- Concrete is spilling excessively.
- The blade is sinking below the wet pads.
- Concrete is creating ripples or "wake marks" after screeding.
- Concrete is sliding under the form boards, creating dips and uneven form edges.

*The less vibration, the better. Only use enough to comfortably pull the screed when walking backwards to leave a smooth, level surface.*

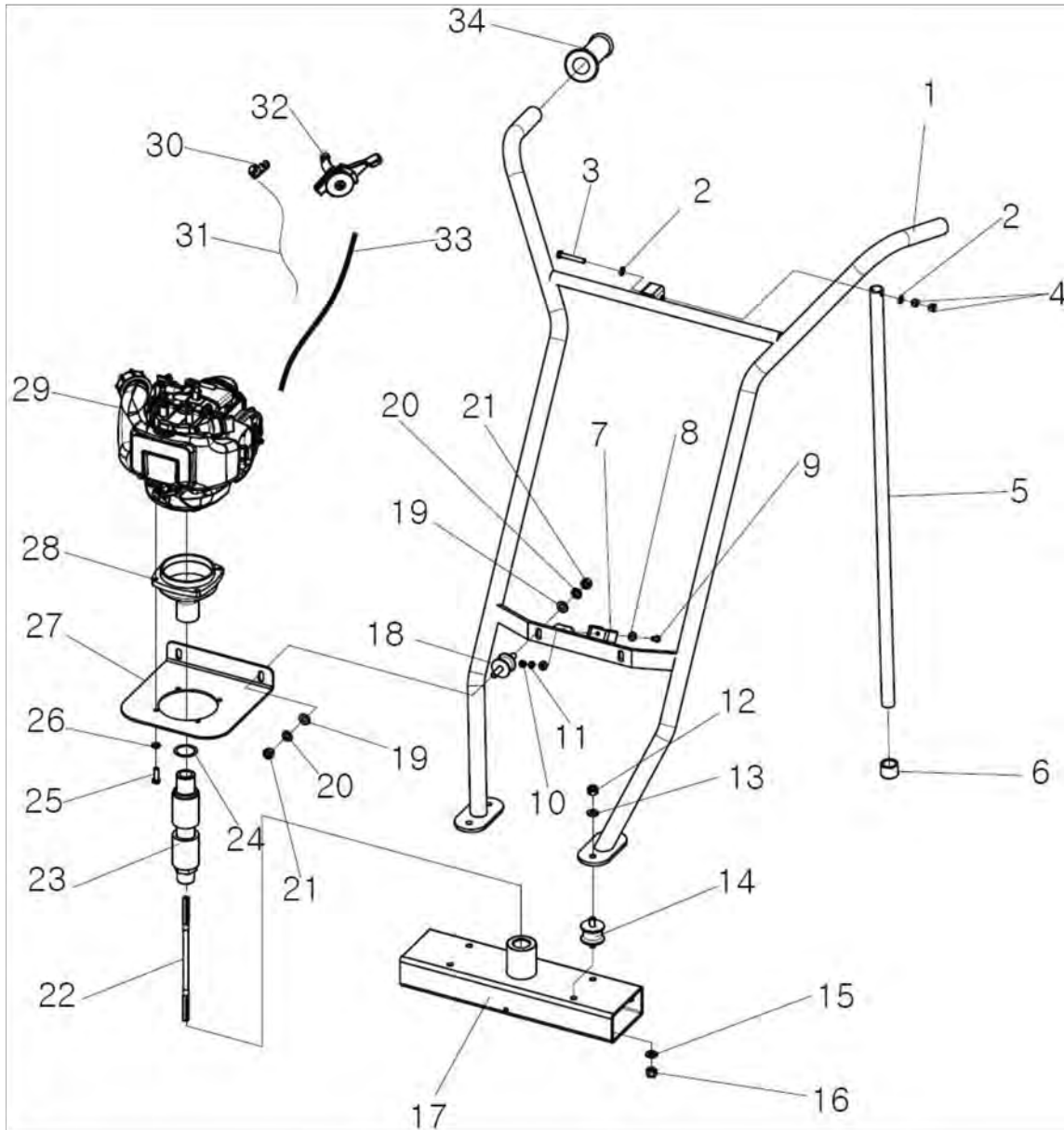
# TOMAHAWK

TVSA-T  
POWER SCREED

Parts Manual



## TVSA-T EXPLOSION DIAGRAM

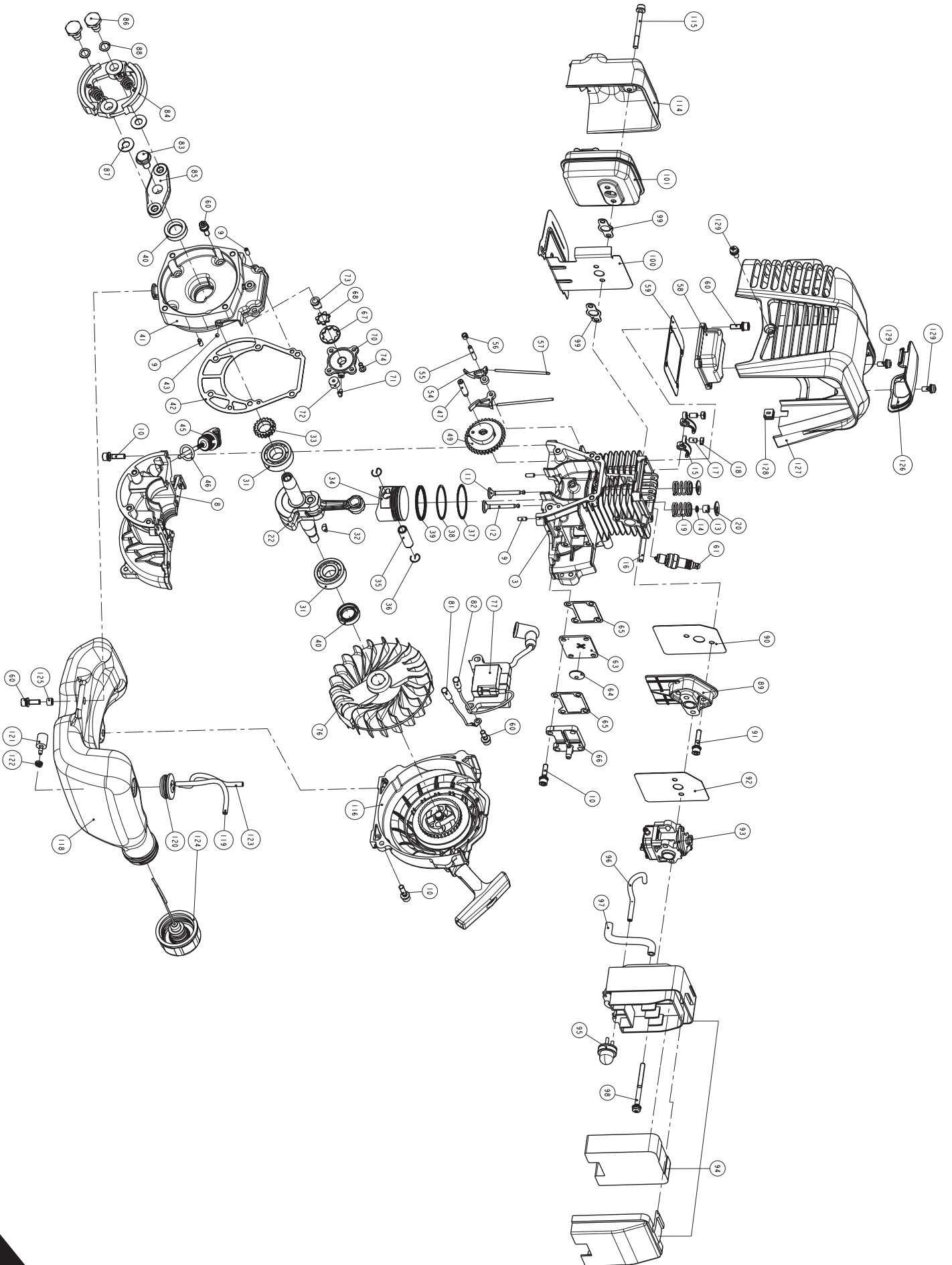


No.	Description	Qty	Size or Dimension
1	Handle Assembly	1	
2	Washer	2	
3	Bolt	1	M6*40L
4	Nut	2	M6
5	Handle Support Pipe	1	
6	Handle Support Pipe Rubber	1	
7	Clip	1	
8	Washer	2	M5
9	Bolt	1	M5x15
10	Nut	1	M5

## TVSA-T EXPLOSION DIAGRAM

No.	Description	Qty	Size or Dimension
11	Spring Washer	1	M5
12	Cap But	4	M8
13	Washer	4	M8
14	Handle Support Rubber	4	
15	Washer	4	M8
16	Cap Nut	4	M8
17	Vibratory Housing Assembly	1	
18	Handle Support Rubber	2	
19	Washer	4	M8
20	Spring Washer	4	M8
21	But	4	
22	Wire	1	
23	Hose Assembly	1	
24	O-Ring	1	P20
25	Bolt	4	M6*20L
26	Spring Washer	4	M6
27	Engine Plate	1	
28	Clutch Housing Assembly	1	
29	Engine	1	TOMAHAWK 37.7cc
30	Engine Stop Switch	1	
31	Engine Electric Stop Wire	1	
32	Throttle Lever	1	
33	Throttle Lever with Cable	1	
34	Handle Rubber	2	

# TVSA-T ENGINE DIAGRAM





## TVSA-T ENGINE DIAGRAM

No.	LEVEL			PARTS NO.	PARTS NAME
1				E15010000A	ENGINE ASS'Y
2				E15010400A	CYLINDER ASS'Y(A)
3	1			E15010410A	CYLINDER COMP.
4		1		E15010411A	CYLINDER BORING
5		2		139F-2.10.1-2	EXHAUST VALVE SEAT
6		3		139F-2.10.1-1	INTAKE VALVE SEAT
7		4		142F.9.3-4	VALVE GUIDE
8	2			E15010110A	CRANK CASE
9	3			6032104012	KNOCK PIN
10	4			2013050520	HEXAGON SOCKET BOLT M5x20
11				139F-2.10-5	EXHAUST VALVE
12				139F-2.10-4	INTAKE VALVE
13				139F-2.10-7	COVER INTAKE VALVE
14				139F-2.10-8	RING INTAKE VALVE
15				E15010661A	ROCKER ARM
16				E15010662A	ROCKER ARM PIN
17				134F.11-17	JIB SEAT
18				139F.7-5	ADJUST NUT
19				E15010420A	VALVE SPRING
20				E15010430A	VALVE SPRING SAET
21				E15010300A	PISTON CRANK ASS'Y
22	1			E15010320A	CRANK SHAFT ASS'Y
31	2			7002306202	BALL BEARING 6202
32	3				HALF KEY
33	4			E15010314A	CRANK GEAR
34	5			139F-2.3-1A	PISTON
35	6			139F-2.3-4	PISTON PIN
36	7			P40.6-4	CIR CLIP
37	8			139F.9-4	1ST RING
38	9			139F.9-5	2ND RING
39	10			139F.9.3	OIL RING
40				8820152507	OIL SAEL TC TYPE 15x25x7
41				E15010130A	SIDE COVER
42				E15010210A	SIDE COVER GASKET
43				6110900040	STEEL BALL
44				E15010120A	OIL CAP ASS'Y
47				E15010610A	CAM SHAFT
48				E15010620A	CAM GEAR ASS'Y
49	1			E15010621A	CAM GEAR
54				E15010630A	CAM FOLLOWER
55				E15010640A	CAM FOLLOWER SHAFT
56				E15010641A	ADJUSTING SPACER
57				139F-2.10-6	PUSH ROD
58				E15010710A	CYLINDER HEAD COVER
59				E15010720A	CYLINDER HEAD COVER GASKET
60				2013050516	HEX SOCKET HEAD CAP SCREW PS M5x20

## TVSA-T ENGINE DIAGRAM

No.	LEVEL			PARTS NO.	PARTS NAME
61				9500CMR5H	SPARK PLUG
62				E15010740A	UMBRELLA VAVLE COM
63	1			E15010741A	SEPARATOR PLATE
64	2			134F.12-5	UMBRELLA CHECK VALVE
65				E15010743A	SEPARATOR COVER GASKET
66				E15010744A	SEPARATOR COVER
67				E15010150A	OUTER ROTOR
68				E15010140A	INNER ROTOR
69				E15010160A	COVER PUMP COMP
72				E15010180A	OIL FILTER
73				E15010144A	ROLLER DRIVE SHAFT
74				GB/T 70.2-2000	
75				1E48F.5.1	MAGNETO ROTOR ASS'Y
83					HEXAGON HEAD BOLTS WITH FLANGE M8xP1.25x16
84					CLUTCH ASS'Y
89				E15015100A	INSULATOR
90				E15015010A	INSULATOR GASKET
91				2013050525	HEX SOCKET HEAD CAP SCREW PS M5x25
92				E13015030A	CARBURETOR GASKET
93					CARBURETOR (With throttle wire fixing plat)
94					CLEANER BODY ASS'Y(A)
95					PRIMING PUMP COMP
96					FUEL PUMP PIPE
97				E15010730A	BREATHER PIPE
98					M5x60 SCREW PS
99				E15010411A	MUFFLER GASKET
100				E15014120A	WIND GUIDE PLATE
101				E15014000A	MUFFLER ASS'Y
102	1			E15014010A	MUFFLER BASE
103	2			E15014020A	MUFFLER COVER ASS'Y
104		1		E15014021A	MUFFLER COVER
105		2		E15014022A	EXHAUST PIPE INNER PLATE
106	3			E15014030A	MUFFLER FLANGE
107	4			E15014040A	MUFFLER COLLAR
108	5			E15014050A	BUFFLE PLATE
109	6			E15014060A	SCREEN,SPARK
110	7			E15014070A	EXHAUST PIPE GASKET
111	8			E15014080A	EXHAUST PIPE PLATE
112	9			E15014090A	EXHAUST PIPE
113	10			E15014100A	M4 SCREW
114				E15014130A	MUFFLER HEAT SHIELD
115				E15014050A	HEX. SOCKET HEAD CAP SCREW P M5xP0.8x50
116				1E48F.6	RECOIL STARTER ASS'Y
117				E15017100A	TANK ASS'Y
118	1			E15017110A	TANK
119	2			E15017120A	FUEL PIPE
120	3			E15017130A	FUEL GROMMET

## TVSA-T ENGINE DIAGRAM

No.	LEVEL			PARTS NO.	PARTS NAME
121	4			E15017140A	PUMP FILTER BODY ASS'Y
122	5			E15017150A	FUEL PIPE
123	6			E15017200A	TANK CAP ASS'Y
124	7				COLLAR
125				E15016010A	PLUG COVER
126				E15016000A	ENGINE COVER ASS'Y
127					RUBBER PLUG
128				1103010514	CROSS RECESSED PAN HEAD SCREW PS M5X14
129				GB/T 97-1	PLAIN WASHER
130				GB/T 93	SINGLE COIL SPRING LOCK WASHERS
131				GB/T 41-2000	HEXAGON NUTS M10x P1.0
132					DUCKBILL CHECK
133				E15010745A	SEPARATOR GASKET A
134				E15010746A	SEPARATOR ELEMENT



# NEVER PUMP NEVER LOSE PRESSURE

Lose the manual pump and gain the power to spray **15,000 ft<sup>2</sup> in 10 minutes** or less while maintaining constant, adjustable pressure from 50-435 PSI with your ideal concrete sealant, cure, top cast, form release, and more!



Item #: TCS6.5

**6.5 GAL MOTORIZED  
CONCRETE SPRAYER**

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# POWER YOUR WORLD

Perfect for concrete finishing of warehouses, decks, parking lots, and more, adjust from 0-28 degrees with 4 Combo hardened, tempered steel blades to **achieve a matte, light gloss, or gleaming finish!**



Item #: JXPT46K

**24" - 36" - 46"**  
**POWER TROWELS**

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# TOMAHAWK

## PRODUCT CATALOG

COMPACTION



HONDA  
ENGINES

**3,550 lbs/ft Vibratory Rammer**  
Part#: TR68H

3.6 HP Honda GXR120 Engine  
Easily achieve a 100% compaction rating  
3-in-One Fuel System with carburetor protection  
13" x 11" plate for narrow trenches and corners  
3 Year Engine Warranty & 1 Year Product Warranty



HONDA  
ENGINES

**3,400 lbs/ft Plate Compactor**  
Part#: TPC90H

5.5 HP Honda GX160 Engine  
Easily achieve a 100% compaction rating  
22" x 20" cold, rolled steel beveled base plate  
Includes 3.5 gallon water tank for asphalt compaction  
3 Year Engine Warranty & 1 Year Product Warranty



HONDA  
ENGINES

KOHLER  
ENGINES

**3,000 lbs/ft Plate Compactor**  
Part#: TPC80 & TPC80H

6 HP Kohler CH260 & 5.5 HP Honda GX160 Engines  
Easily achieve a 100% compaction rating  
16.5" x 21.5" plate for narrow trenches and corners  
Optional Honda Engine model: TPC80H  
3 Year Engine Warranty & 1 Year Product Warranty

FINISHING



**6.5 Gal Backpack Concrete Sprayer**  
Part#: TCS6.5

Maintain constant, adjustable pressure up to 450 PSI  
Achieve superior concrete finishes with even spraying  
Spray 15,000 sq ft in less than 10 minutes  
Compatible with major manufacturer wands  
1 Year Product Warranty



HONDA  
ENGINES

**1.6 HP Vibratory Concrete Screed**  
Part#: TVSA-H

1.6 HP Honda GX35 Engine  
Aluminum Magnesium blades available from 8ft - 14ft  
Finish concrete 4X faster than other screed methods  
360° adjustable handle placement  
3 Year Engine Warranty & 1 Year Product Warranty



HONDA  
ENGINES

**6" Early Entry Green Concrete Saw**  
Part#: TFS6H

5.5 HP Honda GX160 Engine  
Maximum cutting depth of 1 3/16 inches  
OSHA compliant vacuum port for dust collection  
Includes 6" early entry concrete blade  
3 Year Engine Warranty & 1 Year Product Warranty

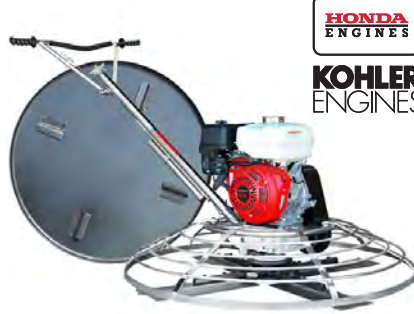
FINISHING



HONDA  
ENGINES

**1.6HP Backpack Concrete Vibrator**  
Part#: TVIBH + TVW10-P

1.6 HP Honda GX35 engine  
Consolidation with speeds of 10,000-12,000 VPM  
Quick Connect centrifugal clutch vibrator  
1" and 2" Diameter Whips Available in 10ft Length  
3 Year Engine Warranty & 1 Year Product Warranty



HONDA  
ENGINES

KOHLER  
ENGINES

**36" & 46" Concrete Power Trowel**  
Part#: TPT36H/K & TPT46H/K

6 HP/14HP Kohler & 5.5HP/8.5HP Honda Engines  
Adjust trowel blade pitch from 0-28°  
60-115 RPM rotor speed for superior concrete finishes  
Includes float pan and trowel blades  
3 Year Engine Warranty & 1 Year Product Warranty



HONDA  
ENGINES

**8" Gas Powered Concrete Scarifier**  
Part#: TSCAR8H

5.5 HP Honda GX160 Engine  
Remove traffic lines at 800 - 1,000 linear ft/hr  
Tungsten Carbide Blade Kit Available  
OSHA approved dust port for silica vacuum removal  
3 Year Engine Warranty & 1 Year Product Warranty

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**POWER / WELDING**

INVERTER SERIES



**2000 Watt Inverter Generator**  
Part#: TG2000I

2000 Max Watts, 1600 Rated Watts  
Run Time of 8 hours on 1 gallon of gas  
OSHA and GFCI Compliant  
Parallel technology capable for double the power  
2 Year Product Warranty

INVERTER SERIES



**210 Amp Portable Welder Generator**  
Part#: TWG210A

Steady 50 - 210 Amp DC welding output  
60% Duty Cycle for extended use  
Suitable for welding rods from 6010 to 7024  
Electric Key Start with battery included  
2 Year Product Warranty



**7000 Watt Generators**  
Part#: TG7000

7000 Max Watts, 5500 Rated Watts  
Voltage Selector gives Full Wattage for 120V or 240V  
Run Time of 8 hours at 50% Load  
OSHA and GFCI Compliant  
2 Year Product Warranty

**PEST CONTROL**



**3.7 Gallon 3HP Backpack Fogger**  
Part#: TMD14

Turbo Boosted Pump with 40ft + Horizontal Reach  
Sprays 1 acre in 30 minutes  
10X Faster than Manual Pump Sprayers  
Converts to Leaf Blower with 200 MPH Air Velocity  
1 Year Product Warranty



**4.75 Gallon Battery Power Sprayer**  
Part#: eTPS18

Reach Up to 30ft Horizontal Reach  
Sprays 6000 sq ft in 10 minutes  
10X Faster than Manual Pump Sprayers  
70 PSI Commercial Grade Pump  
1 Year Product Warranty



**5 Gallon Backpack Power Sprayer**  
Part#: TPS25

Reach Up to 30ft Horizontal Reach  
Sprays acres in 10 minutes  
10X Faster than Manual Pump Sprayers  
50-435 Adjustable PSI Commercial Grade Pump  
1 Year Product Warranty

**AND MORE**



**4 Gal. Backpack Fertilizer Spreader**  
Part#: TGS30

Reach up to 30ft Horizontally  
Sprays 1 acre in 30 minutes  
20X Faster than push spreaders  
Converts to Leaf Blower with 200 MPH Air Velocity  
1 Year Product Warranty



**3" Full Trash Water Pump**  
Part#: TW3H

Moves liquids at a rate up to 375 gal/min  
Handle solids up to 1.5"  
Silicone carbide seals and a chrome plated volute  
8 HP engine protected by rugged all purpose frame  
3 Year Engine Warranty & 1 Year Product Warranty



**Commercial 38" Push Sweeper**  
Part#: TOS38

Collect up to 14.5 gallons of dust and debris  
Can be used indoors & outdoors on wet or dry surfaces  
Includes integrated airflow control and fine dust filter  
Lightweight design, capable of fitting through doorways  
1 Year Product Warranty



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