# TOMAHAWK

TBUGGY300e POWER BUGGY

**Operation Manual** 



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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
- ☑ Excusive 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

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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.

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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?

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#### **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 <a href="www.tomahawk-power.com">www.tomahawk-power.com</a>
This equipment is built with user safety in mind; however, it can present hazards if improperly operated or 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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#### 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.

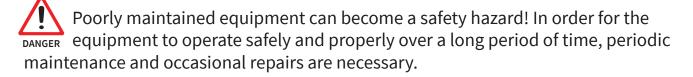
#### 1.1 Operating Safety

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.

- **1.1.1 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.
- **1.1.2 ALWAYS** Be safety-conscious by dressing appropriately during operation. Always wear protective footwear, safety glasses/eyeware, and a hard hat.
- **1.1.3 ALWAYS** Exercise extreme caution with the controls when working on steep and/or slippery surfaces. This is especially important when people are near the working area.
- **1.1.4 ALWAYS** Ensure that all safety guards are in place when operating your Power Buggy.
- **1.1.5 ALWAYS** Keep your Power Buggy free of any accumulation of dirt, grease, oil, or any other flammable material.
- **1.1.6 NEVER** DO NOT carry "passengers" on your Power Buggy.
- **1.1.7 NEVER** DO NOT start operating without completing daily maintenance checks.
- **1.1.8 NEVER** DO NOT operate your Power Buggy without exercising the appropriate safety precautions.
- **1.1.9 NEVER** DO NOT use other types of battery charger or batteries.
- **1.1.10 NEVER** DO NOT pressure wash directly on the electrical features.
- **1.1.11 NEVER** use accessories or attachments that are not recommended by Tomahawk Power. Damage to equipment and injury to the user may result.
- 1.1.12 NEVER leave machine running unattended.
- **1.1.13 ALWAYS** be sure operator is familiar with proper safety precautions and operation techniques before using machine.
- **1.1.14 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.
- **1.1.15 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.

- **1.1.16 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.
- **1.1.17 ALWAYS** read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.

#### 1.2 Service Safety



- **1.2.1 DO NOT** attempt to clean or service machine while it is running. Rotating parts can cause severe injury.
- **1.2.2 ALWAYS** replace worn or damaged components with spare parts designed and recommended by Tomahawk Power.
- **1.2.3 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.
- **1.2.4 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 buggy with a damaged part.
- **1.2.5 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.
- **1.2.6 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. TECHNICAL PERFORMANCE

Tomahawk power buggies are powered by a 1000W Electric Motor with robust 4-wheel drive, providing incredible climbing ability and superior traction in mud, dirt, or sand. Plus with the 48V-20Ah battery, use your buggy longer with less down time, up to 6-8 hours! The standard 8ft<sup>3</sup> capacity tub will carry your materials or debris and passes through 31-inch doorways and openings!

### 2.2 Specifications

Model	TBUGGY300e
Motor	1000W Electric Motor Brush Less
Туре	4WD Chain Drive All Terrain with Hydraulic Tipping
Battery	48V-20Ah
Charge	220V/ 50-60Hz
Working Temperature	50°F ~ 104°F (-10°C ~ 40°C)
Capacity	8cu.ft. or 650 lbs weight / 300 kg
Brake	Electromagnetic Brake
Cables	Protected
Wheels	Front 400x10, Rear 400x8
Max Slope	20°
Dimensions	L-63",W-31",H-36" (L-1600mm,W-780mm,H-920mm)
Weight	342 lbs / 155 kg (with battery)
Max Speed	3.72mph (5.0km/h)
Endurance	6-8 hours (against working conditions)

#### 3. OPERATING CONTROLS

#### 3.1 Getting Started

- **3.1.1** Using the battery charger cable, charge the batteries until the battery symbol shows FULL.
- **3.1.2** Check that the locking catch of the skip has engaged before moving.
- **3.1.3** Located under the buggy, switch ON the main power.

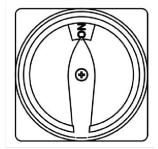
#### 3.2 To Move Forward

- **3.2.1** Turn the key switch to the "ON" position.
- **3.2.2** Ghoose the speed on the panel as following:



- 1: Min speed 1.24 mph (2km/hr)
- 2: Mid speed 2.5 mph (4km/hr)
- 3: Max speed 3.72(6km/hr)

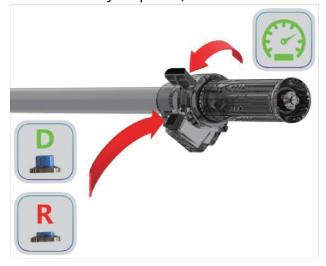




**3.2.3** Gently engage the left hand lever, the Power Buggy will move forward.



**3.2.4** Check the black button on the right control handle and confirm the button is in the UP position. Move the throttle. The more you press, the faster it will run.



#### 3.3 To Reverse

**3.3.1** Release the left hand lever and right hand throttle to stop the Power Buggy.

**3.3.2** Press the black button on the right control handle to "R" status. The machine will

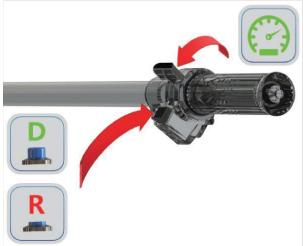
sound its alarm.



**3.3.3** Gently engage the left hand lever, the Power Buggy will move backwards.



**3.3.4** Move the throttle. The more you press, the faster it will run.



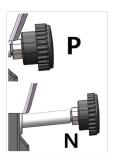
#### **NOTE**

- When pressing the red button on the left handle while the power is ON, the Power Buggy can be moved forward and in reverse.



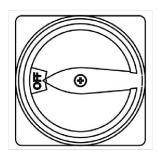
Parking brake (P & N) instructions:
 When working, keep Power Buggy in the "P" position.
 When the power is OFF, keep in the "N" position to move the machine.





- If the Power Buggy is not used for a long period of time, fully charge the battery and turn OFF the main power switch.





#### 3.4 To Stop

- **3.4.1** Release the control lever. The Power Buggy will slow down and stop. The parking brake will automatically turn on.
- **3.4.2** Turn the key switch to the "OFF" position.

#### 3.5 Emergency Stop

- **3.5.1** Push the red button to turn off immediately.
- **3.5.2** To reset the emergency stop, turn the red button to the right.

#### 3.6 To Empty / Reset Skip

**3.6.1** Stop the machine and press switch **B** 



RESET





**NOTE:** Make sure there are no people in front of the Power Buggy.

#### 3.7 Charging the Battery

- **3.7.1** Connect the power line with the charging interface, then connect the plug to the main power.
- **3.7.2** After charging, disconnect the plug first. Then, disconnect the power line from the charging interface.

**NOTE:** Violation of the above operation may result in damage to the machine or personal injury.







# 4. Operation Controls Diagram



#### **5. MAINTENANCE**

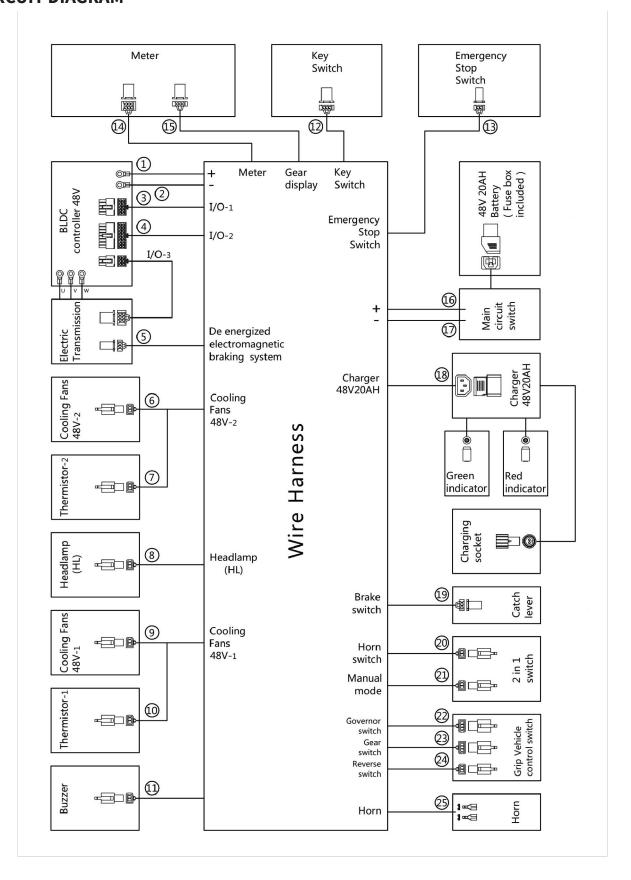
Routine checks of your Power Buggy will ensure trouble-free operation. Inspect and/or service your power buggy at the intervals shown below. A daily check takes only minutes, but could save you hours of time and money. Good usage habits and maintenance will extend the life of the machine!

	DAILY	WEEKLY
State of Battery Charge		
Control Cables		
Condition of Wiring		
Tire Pressure		
Front Wheels: 30 PSI		
Back Wheels: 30 PSI		
All Nuts/Bolts		

#### 6. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION	
	Power not "ON"	Turn power switch underneath control board	
Buggy Won't Start	Emergency brake engaged	Release emergency brake engaged	
	Battery not charged	Charge Battery	

#### 7. CIRCUIT DIAGRAM

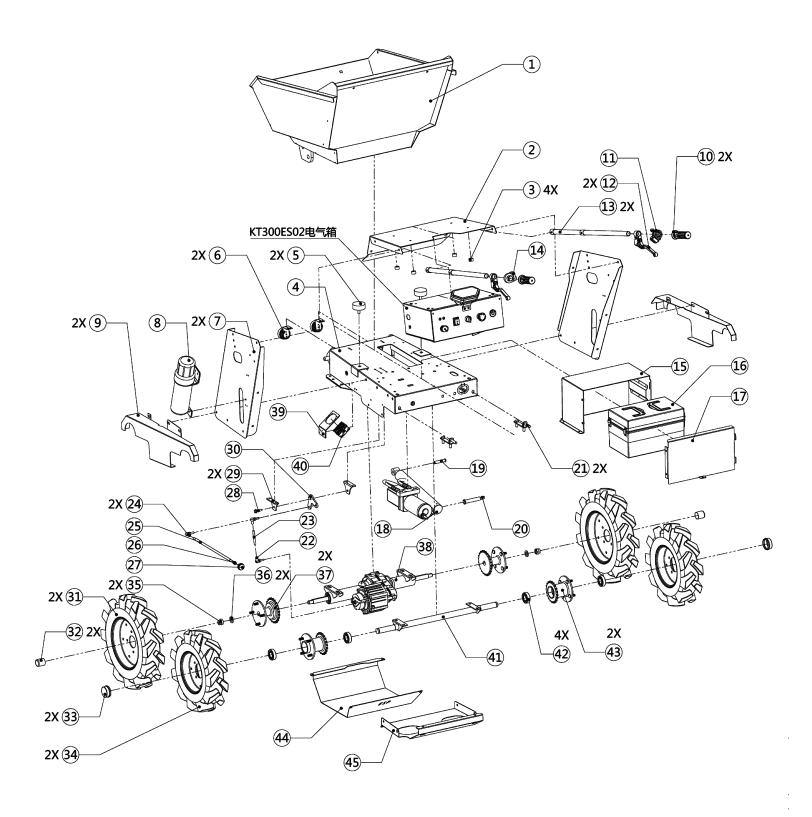


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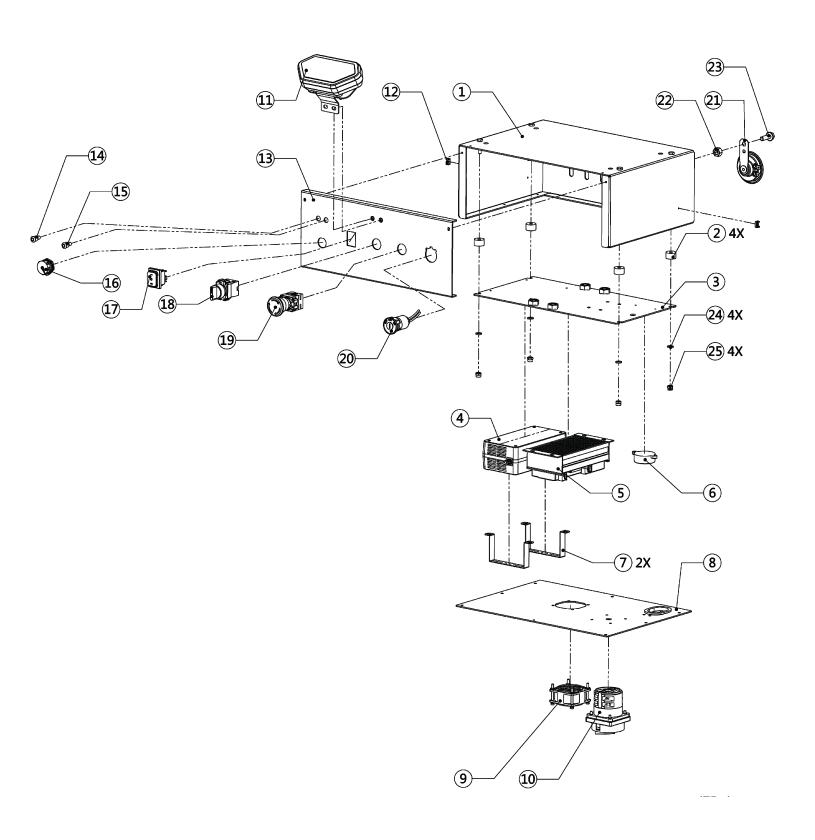
TBUGGY300e POWER BUGGY

**Parts Manual** 





Item	No.	Description	Quantity
1	KT300ESP02M001	Skip Bucket	1
2	KT300ES01M001	Operator Panel	1
3	KT300ES02M006	Cushion Block	4
4	KT300ES04M001	Base Weldment	1
5	JZVE8560221027	Impingement Block VE 60×22- M10×27	2
6	DLEDY480401	Low Beam	2
7	KT300ES01M002	Side Cover Boards	2
8	CWT01	Storage Bucket	1
9	KTMD250A04M004	Chain Cover	2
10	DKHDT2022	Grip	2
11	KGZB01	Transmission Switch	1
12	DKSBK3	Catch Lever	2
13	KT300ES01M004	Hand Tube	2
14	DKDK21	Switch	 1
15	KT300ES03M001	Battery Compartment Welding	<u>·</u> 1
16	DCQS01	48V 20AH Battery	<u>·</u> 1
17	KT300ES03M005	Battery Compartment Cover	<u>·</u> 1
18	EHY043505023501	Electric Hydro Piston System	<u>·</u> 1
19	XZ1260	Pin Shaft 1260	<u>·</u> 1
20	KT300ESP03M003	Pin Shaft 1683	1
21	KTMD250A03M005	Adjusting Plate Weldment	2
22	QJPZ0806	KYC250SM8M6 Ball joint	1
23	KT300ES06M006	Connecting Screw	<u>'</u> 1
24	QJPZ08	KYC250SM8 Ball joint	2
25	KT300ES06M005	Brake Handle	1
26	LMLJPTZ0108	GB FASTENER NUT SNAB1 M8	<u>'</u> 1
27	SBQ01M8	Handle Ball	<u>'</u> 1
28	LSFLWLJGB0830Z	GB FASTENER BOLT HFBBM8 ×30	<u>'</u> 1
29	KT300ES06M001	Brake Bracket	2
30	KT300ES06M004	Brake Connecting Plate	<u>2</u> 1
31	LTRW24010	Wheel Complete (10")	2
32	LIRW24010 LGT012525	Rubber Sleeve	2
33	FCG0152	Dust Cover	2
34		Wheel Complete (8")	2
35	LTRW24008	·	2
	LMLJNLSJZ0116	GB Hexagon Type9 M16	
36	DPPADGB16Z	GB_FASTENER_WASHER_PENA 16	2
37	KT300ES07M001	Sprocket Flange	2
38	KTT28690	Electric Transmission Type KTT28690	<u> </u>
39	KT300ES07M002	Fan Bracket	11
40	SR01	Cooling Fans 48V	1
41	KTMD250A03M001	Rear Axle Assembly	1
42	ZCGBSGQ6205	Rolling Bearings 6205	4
43	KTMD250A03M004	Rear Sprocket Flange	2
44	KT300ESP03M002	Front Protective Plate	1
45	KT300ESP03M001	Rear Protection Plate	1



Item	No.	Description	Quantity
1	KT300ES02M001	Electric Box Welding	1
2	KT300ES02M006	Cushion Block	4
3	KT300ES02M005	Electrical Mounting Plate	1
4	CDKY482001	Charger 48V20AH	1
5	KZES4810	BLDC Controlller 48V	1
6	FMYY01	Buzzer	1
7	KT300EN04M016	Charger Hoop	2
8	KT300ES02M003	Electric Box Cover	1
9	SR01	Cooling Fans 48V	1
10	KGZHM226320402	Main Power Switch	1
11	YBXW01	Meter	1
12	HC1S3M	Fixed Seat	1
13	KT300ES02M004	Key Switch Board	1
14	CDLEDR01	Charging Indicator(REDLED)	1
15	CDLEDG01	Charging Indicator (GreenLED)	1
16	CDJKSP2101	Charging Port	1
17	KGQBFS1663	Headlamp Switch (3 Gears)	1
18	NP2BD33	3 Gear Switch	1
19	KGJTBE102	Emergency Stop Switch	1
20	KGYSDT011	Key Switch	1
21	LB01	Horn	1
22	LMLJPTZ0108	GB_FASTENER_NUT_SNAB 1 M8	1
23	LSFLWLJGB0825Z	GB_FASTENER_BOLT_HFBB M8×25	1
24	DPPADGB06Z	GB_FASTENER_WASHER_P ENA 6	4
25	LMLJNLSJZ0106	GB Hexagon Type9 M6	4













1tem #: JXPT46K 24" - 36" - 46" POWER TROWELS

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# TOMAHAWK

# PRODUCT CATALOG



#### 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



#### 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



#### 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



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



#### 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



#### 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



## 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



## 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



#### 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

#### HAVE QUESTIONS?





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



#### 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



#### 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



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



#### 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



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



\* All coupons in this manual are valid only for orders placed on www.tomahawk-power.com, unless otherwise noted. Coupon codes may only be used once per customer and may not be combined with any other offer. Coupons may expire at any time without notice.



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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!

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