

TOMAHAWK

TPT36FXH-270 & TPT46FXH-390
Fast Pitch Power Trowels

Operation Manual

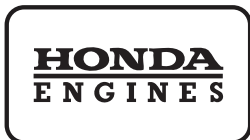


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This manual provides information and procedures to safely operate and maintain this equipment. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

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.

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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 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



DANGER 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



WARNING 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 trowel will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the trowel with a damaged part.

1.4.10 ALWAYS inspect the screed prior to placing in storage and before re-use. Store the trowel 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 trowel. Accessories that may be suitable for one trowel may create a risk of injury when used with the screed equipment.

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

2. GENERAL INFORMATION

2.1 Intended Use

Leave laborious hand-finishing tasks in the past with the Tomahawk Power Trowels! Densify concrete floors with ease for your ideal finishing results on projects including driveways, basements, and commercial/industrial jobs.

2.2 Trowel Familiarization

Tomahawk Power Trowels are designed for the floating and finishing of concrete slabs. Analyze your trowel and take notice of each component: the engine, blades, quick pitch control, air cleaner, centrifugal stop switch, clutch and pulley system. Be sure that there is always oil in the engine.

2.3 Safety

Before using your power trowel, read all of the safety instructions carefully. Safety instructions are available throughout this manual and on the equipment. Safety information should remain in good, readable condition. Operators must be well trained on the operations and maintenance of the trowel.

Before starting, test the trowel on a flat, watered down section of finished concrete. Test on a section that is free of any debris and other objects.

The trial test run will increase operator confidence, while helping familiarize yourself with the trowel's controls. In addition, this will help operators understand how the power trowel functions under real conditions.

2.4 Engine

Tomahawk Power Trowels are powered by Honda and Kohler Engines. Refer to the engine owner's manual for instructions regarding the operation and maintenance of your engine. The engine manual is included with your trowel. For further assistance or to receive a new manual, contact Tomahawk Power customer service at (866) 577-4476 or refer to the Manuals Page on the Tomahawk Power website.

2.5 Drive System

The power is transferred from the engine to the gearbox input shaft via a V-belt pulley drive system. The pulley engages using either a centrifugal or manual clutch. Refer to the Parts section of this manual for more information.

2.6 Gearbox

The gearbox is located beneath the engine and transfers power to the rotor or spiderbox assembly. The gearbox controls the rotational speed of the trowel and is equipped with two shafts (input and output).

2.7 Spiderbox

The vertical output shaft of the gearbox connects to a cast hub called the spiderbox. The spiderbox has 4 arms that extend outward that are used for attachment of blades or other accessories. Remember: when the gearbox output shaft rotates, so does the spiderbox assembly.

2.8 Guard Ring

Some units are equipped with a special rotating guard ring. It is designed to allow the operator to run the machine alongside walls, pipes, and obstructions without marring the surface.

2.9 Blades

The blades of the trowel are used to finish the concrete as they rotate around your given surface. This trowel includes 4 combination blades (8 in./203mm wide) per rotor. They are equally spaced in a radial pattern and attached to the vertical rotating shaft by means of the spider assembly.

2.10 Centrifugal Clutch

In the event of a trowel runaway condition (the operator releases the handle), the centrifugal clutch will stop the engine and bring the trowel to a complete stop.

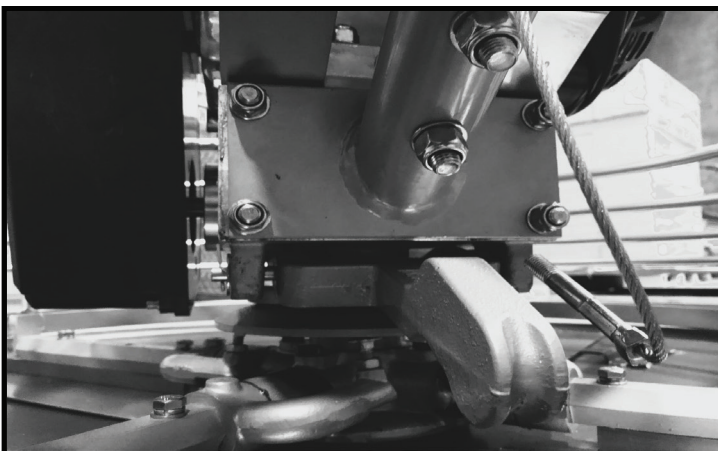
2.11 Training

For proper training education, refer to the “TRAINING CHECKLIST” section located in the back of this manual. This checklist contains an outline for an experienced operators to provide training to a new operator.

3. TECHNICAL DATA

MODEL	TPT36FXH-270	TPT46FXH-390
ENGINE	Honda	Honda
STARTING METHOD	Recoil Starter	Recoil Starter
DISPLACEMENT	270cc	390cc
MAX OUTPUT	9HP @ 70-150 rpm	13 HP @ 3,600 rpm
FUEL TYPE	Unleaded Gasoline	Unleaded Gasoline
LUBE OIL CAPACITY	0.41 qt (0.36L)	0.61 qt (0.58L)
GEARBOX OIL TYPE	SAE 10W-30	SAE 10W-30

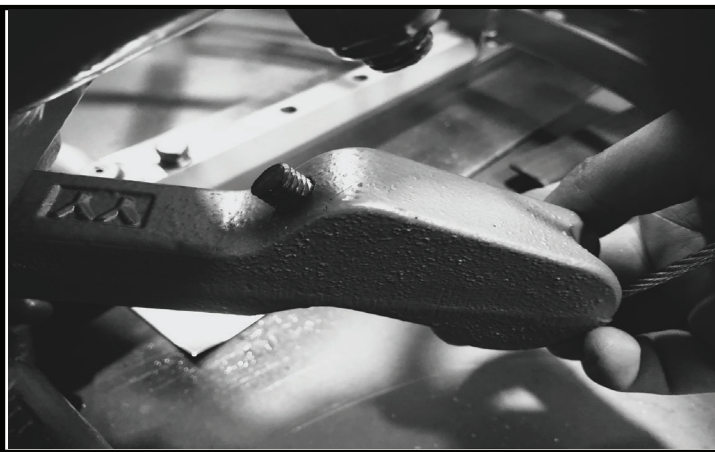
4. QUICK ASSEMBLY GUIDE



1 Use a 16mm socket to tighten 4 nuts to hold handle bar in place



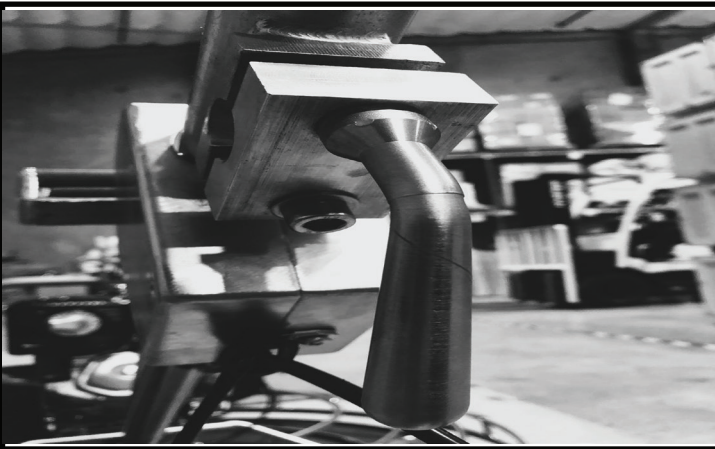
2 Insert pin under pitch control until thread comes out



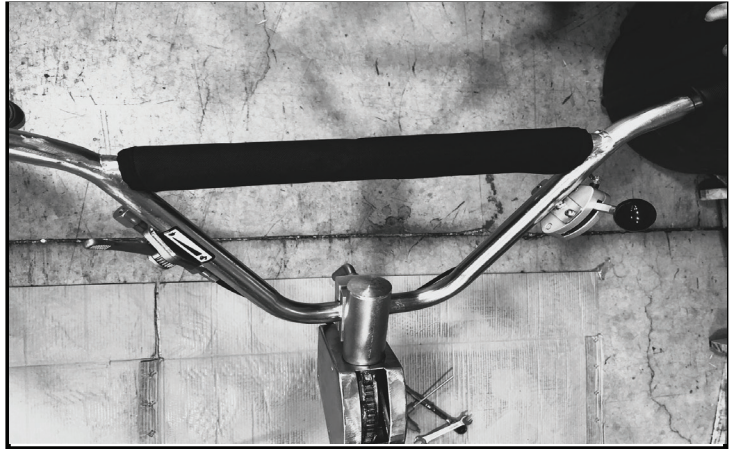
3 Put washer and nut on pin



4 Tighten and secure using a 16mm wrench



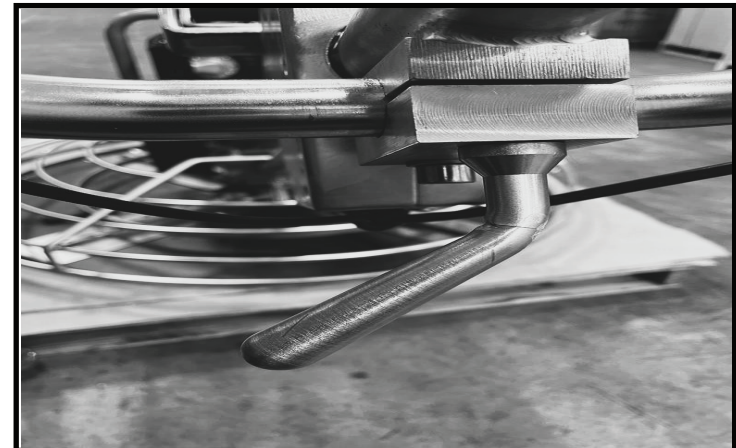
5 To place handle bars , loosen screw and knob



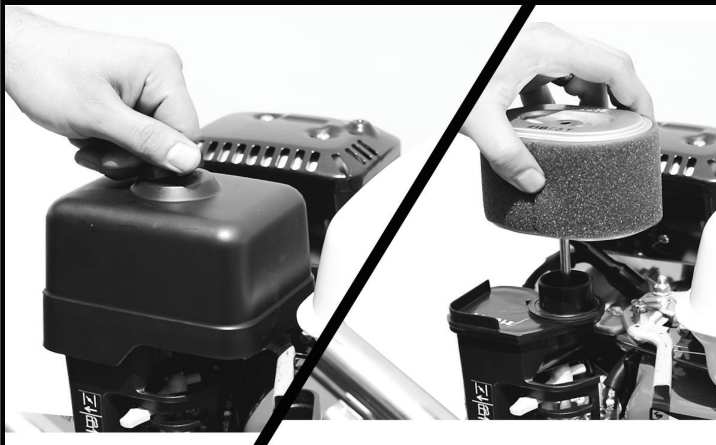
6 Place and adjust handle bars



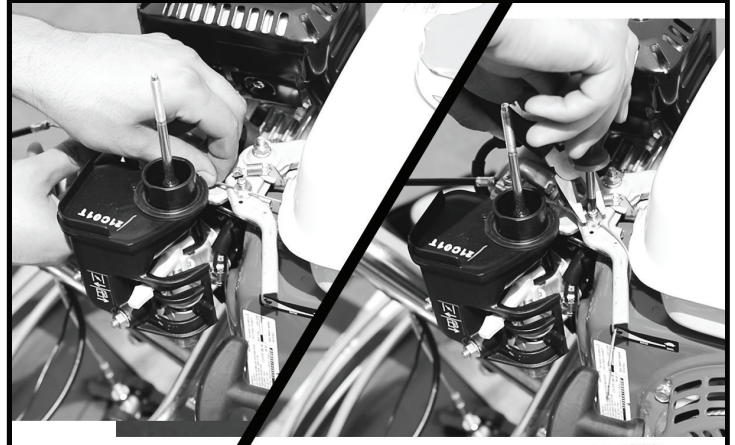
7 Tighten to hold in place



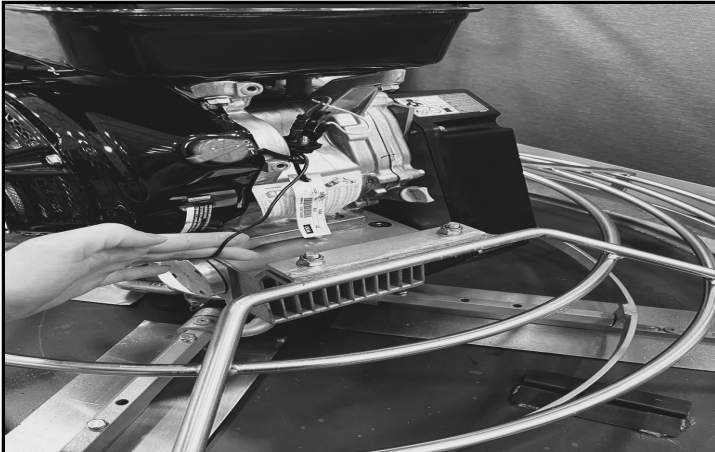
8 Ensure handles are secure and bolt is tightened .



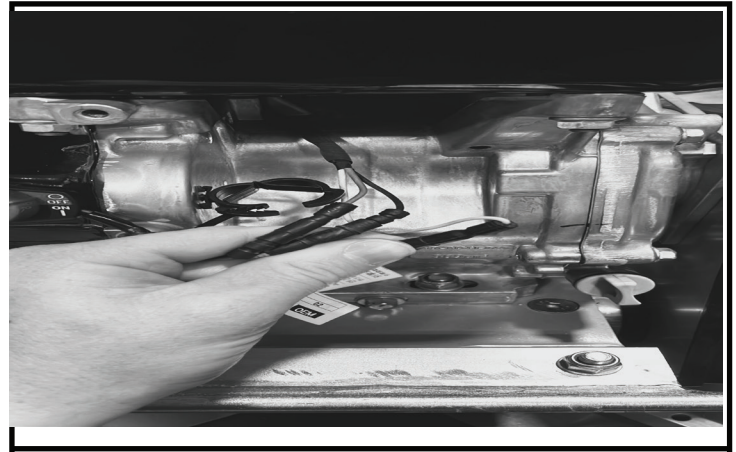
9 To attach the throttle cable, remove the air filter and the cover



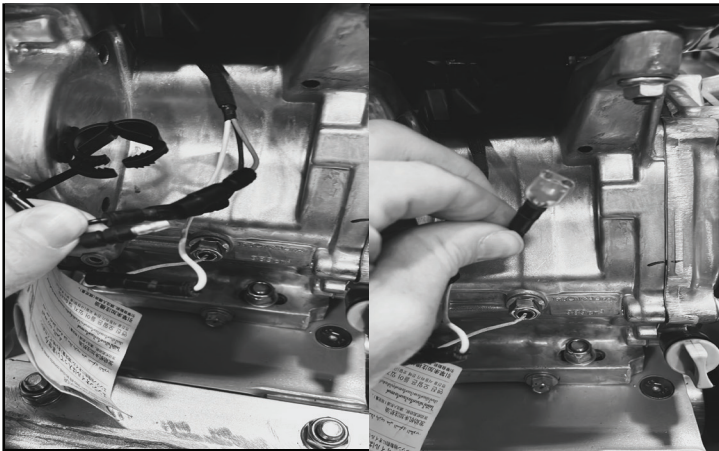
10 Feed the cable through the pivot nut and through the swivel stop. Then fasten nut.



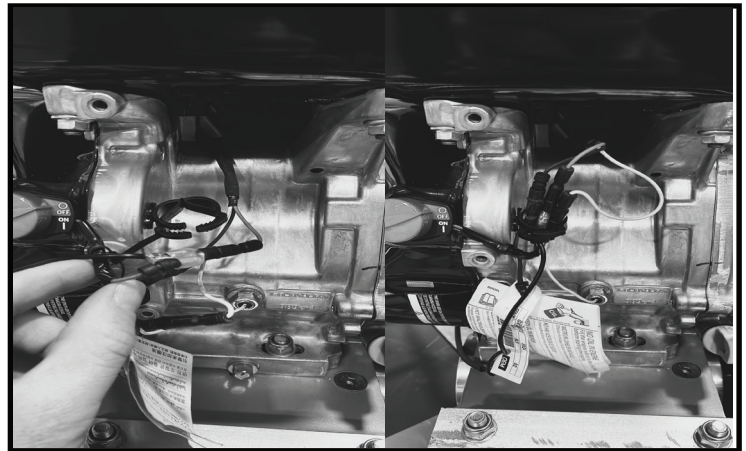
11 Run kill switch wiring through tubing handle bars to the front of trowel where kill switch is



12 Remove wiring and open clamp near Honda Engine On Switch



13 Disconnect red wire and take splitter from bag. Place into female red wire.



14 Connect Male red wire and kill switch from handle bar to splitter. Reclamp wires together

5.5 Bicycle Handlebars

The trowel's wider handlebars allow for higher stability, balance, and maneuverability. Replace handle grips if they become worn or damaged.

5.6 Engine

Tomahawk Power Trowels use Honda and Kohler engines and are backed by a 3-year engine warranty for reliable service.

5.7 Blade Pitch Control

Adjust the trowel's steel blades from 0-28 degrees to achieve a matte, light gloss, or gleaming finish.

5.8 Guard Ring

NEVER put hands and feet inside the guard ring.

5.9 Trowel Arm

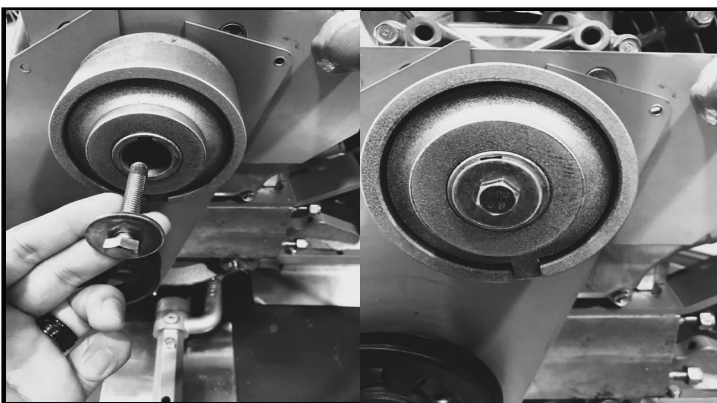
Provides attachment points for the blades. If the blades show uneven wear patterns or if blades wear out faster than others, the trowel arm may need to be replaced.

5.10 Blades

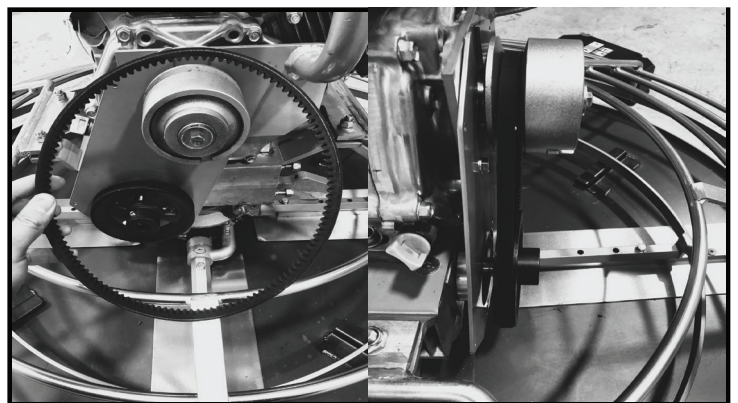
This trowel is equipped with 4 combo hardened, steel blades designed for both float and finish operations. These blades are interchangeable with most manufacturers.

5.11 V-Belt Cover

Remove this cover to gain access to the V-Belt. NEVER operate the trowel with this cover removed.



1 Remove belt cover and insert bolt with a 12 mm wrench and tighten



2 Place belt and secure the belt cover

6. ENGINE

6.1 Servicing

Tomahawk Power Trowels are powered by Honda and Kohler engines. The engine must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions & details of operation and servicing. If a problem should arise, or if you have any questions about your engine, consult an authorized Honda or Kohler servicing dealer.

The Importance Of Maintenance

Good maintenance is essential for safe, economical and trouble-free operation. It will also help reduce pollution.



WARNING:

Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed. Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

To help you properly care for your engine, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Honda or Kohler technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your engine under severe conditions, such as sustained high-load or high-temperature operation, or use in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are "certified" to EPA standards.

6.2 Maintenance Safety

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.



WARNING:

Failure to properly follow maintenance instructions and precautions can cause you to be seriously hurt or killed. Always follow the procedures and precautions in this owner's manual.



CAUTION:

NEVER attempt to lift the trowel by yourself.

ALWAYS get assistance from another person to help lift the trowel.

6.2 Maintenance Safety Continued

6.2.1 Fuel Filler Cap

6.2.2 Throttle Lever

The throttle lever is used to adjust engine RPM speed (lever advanced forward SLOW, lever back toward operator FAST).

6.2.3 Engine ON/OFF Switch

ON position permits engine starting, OFF position stops engine operations.

6.2.4 Recoil Starter (Pull Rope)

Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.

Used in the starting of a cold engine or in cold weather conditions, the choke enriches the fuel mixture.

6.2.7 Air Cleaner

The air cleaner prevents dirt and other debris from entering the fuel system. To access the filter element, remove the wing-nut on top of the air filter canister.

NOTE:

Do not operate the engine without an air filter, with a damaged air filter, or a filter in need of replacement. This will allow dirt to enter the engine and cause rapid engine wear.

6.2.8 Spark Plug

The spark plug provides a spark to the ignition system. Clean the spark plug once a week. Set the spark plug gap to 0.6 - 0.7mm (0.028 - 0.031in).

6.2.9 Muffler

The muffler is used to reduce noise and emissions from the engine.



WARNING:

Engine components can generate extreme heat. To prevent burns, DO NOT touch these areas while the engine is running or immediately after operating. NEVER operate the engine with the muffler removed.

6.2 Maintenance Safety Continued

6.2.10 Fuel Tank

The fuel tank holds unleaded gasoline. For more information, refer to the engine owner's manual.

7. PRE-INSPECTION

NEVER operate the power trowel in a confined area or enclosed structure that does not provide ample free flow of air.

ALWAYS wear approved eyewear and hearing protection before operating the trowel.

NEVER place hands or feet inside the guard rings while the engine is running.

ALWAYS shut the engine down before performing any kind of maintenance on the trowel.

It is recommended that the trowel's kill switch be used to stop the engine after every use. Doing this will verify that the switch is working properly and presents no danger to the operator.

7.1 Before Starting

7.1.1 Read the safety instructions at the beginning of this manual.

7.1.2 Clean the power trowel by removing dirt and dust, particularly in the engine cooling air inlet, carburetor, and air cleaner.

7.1.3 Check the air filter for dirt and dust. If the air filter is dirty, replace it with a new one as required.

7.1.4 Check the carburetor for external dirt and dust. Clean it with dry compressed air.

7.1.5 Check fastening nuts and bolts for tightness.

7.2 Engine Oil Check

7.2.1 To check the engine oil level, place the power trowel on a secure level ground with the engine stopped.

7.2.2 Remove the filler dipstick from the engine oil filler hole (Figure 2) and wipe it clean.

7.2.3 Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.

7.2.4 If the oil level is low (Figure 3), fill to the edge of the oil filler hole with the recommended with SAE10W-30 4 stroke oil. Maximum oil capacity is 400 cc.

NOTE:

Refer to Honda or Kohler Engine Manual for specific servicing instructions.

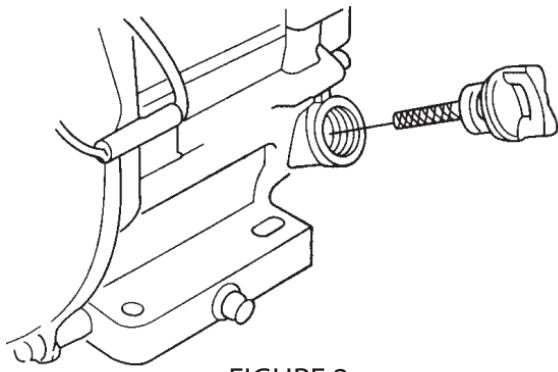


FIGURE 2

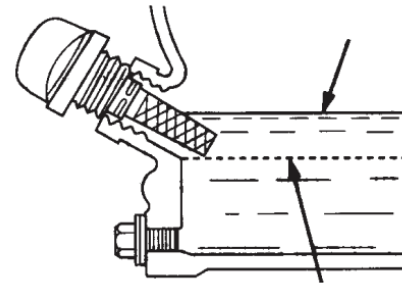


FIGURE 3

7.3 Fuel Check

Engine fuels are highly flammable and can be dangerous if mishandled. DO NOT smoke while refueling. DO NOT attempt to refuel the trowel if the engine is hot or running.

7.3.1 Remove the gasoline cap that is located on top of the fuel tank.

7.3.2 Visually inspect to see if fuel level is low. If fuel is low, replenish with 89 Octane gasoline.

7.3.3 When refueling, be sure to use a strainer for filtration. DO NOT top-off the fuel. Wipe up any spilled fuel.

7.4 Gearbox Oil

7.4.1 Determine if the gearbox oil is low by removing the oil plug located on the side of the gearbox. This plug will be marked by the "check" decal. See Figure 4. The correct level of the lubrication oil should be to the bottom of the fill plug.

7.4.2 If lubrication oil begins to seep out as the drain plug is being removed, then it can be assumed that the gearbox has a sufficient amount of oil.

7.4.3 If lubrication oil does not seep out as the drain plug is being removed, fill with type ISO 680 gearbox lubricant oil until the oil filler hole overflows.

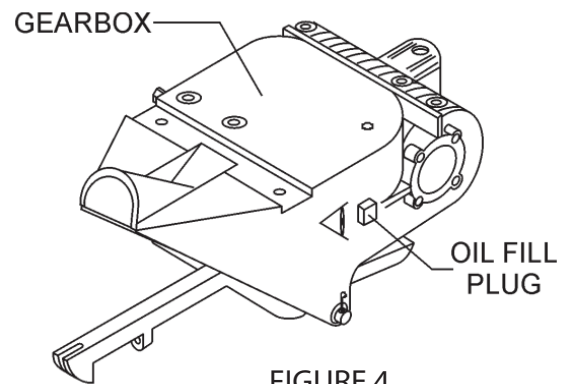


FIGURE 4

7.5 V-Belt Check

A worn or damaged V-belt can adversely affect the performance of your power trowel. If a V-belt is defective or worn out, simply replace the V-belt as outlined in the maintenance section of this manual.

7.6 Blade Check

Before starting, check for worn or damaged blades. If one blade is worn out while the others look new, this could be because of a blade pitch problem. Refer to the maintenance section of this manual for instructions on the blade pitch adjustment procedure. Replace any worn out blades.

7.7 SAFETY KILL SWITCHES

This power trowel has been equipped with a safety kill switch. Safety kill switches should be tested every time the engine is started.

NOTE

NEVER! disable or disconnect the kill switch. It is provided for operator safety. Injury may result if it is disabled, disconnected, or improperly maintained.

7.8 HANDLE PRESS KILL SWITCH

Located on the main handle tube is a red switch (Figure 5). The switching mechanism of this switch should operate freely and should always be kept in this condition. With the switch in the OFF position, the engine should not start or run. The purpose of this switch is to stop the engine in a runaway situation, (i.e.-the operator releasing the handle during operation).

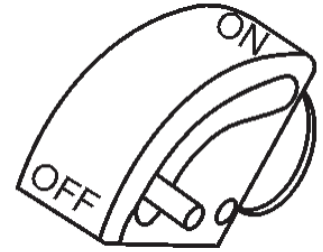


FIGURE 5

DO NOT let the machine sit unused with the engine at high speed for an extended period of time. It will cause premature belt wear or may destroy the belt. **ALWAYS** set the engine speed to idle when the hand clutch is disengaged.

8. INITIAL START-UP

Lifting the Trowel Onto a Slab

8.1 Auxiliary Lifting Tube

Remove the auxiliary lifting tube located on top of the main handle. Insert the tube into the socket located on the opposite side of the gearbox from the handle. Make sure that the hole in the tube engages with the pin in the socket. With one person lifting from the main handle, and another lifting from the auxiliary lifting tube, pick up the machine to move onto a slab.



WARNING:

The trowel must be stabilized by the person carrying the operator's handle. If it is not stabilized properly the handle may swing around and flip the trowel, thus causing damage to the trowel and bodily injury.

8.2 Lifting Bale

The lift bale is optional on new trowels. It provides an optimal lift point for moving the trowel. Lift bales or forklift can be used to lift a trowel up onto a building with a crane.

Using a crane to move a machine with a lift bale is highly recommended, and is perfectly safe for the machine. Extra care should be taken when lifting the machine off the ground, though. Serious damage to the machine or personal injury could be caused by dropping a trowel.

8.2 Lifting Bale Continued

This section is intended to assist the operator with the initial start-up of the walk-behind trowel. It is extremely important that this section be read carefully before attempting to use the trowel in the field.

DO NOT use your trowel until this section is thoroughly understood



WARNING:

DO NOT attempt to operate the trowel until the Safety, General Information, and Inspection sections of this manual have been read and thoroughly understood. Depending on the engine manufacturer, operating steps may vary. See engine manufacturer's operating manual.

9. STARTING THE ENGINE

9.1 Place the engine fuel valve lever (Figure 6) to the "ON" position.

9.2 Place the trowel's throttle lever (Figure 1) to the "IDLE" position.

9.3 Place the choke lever (Figure 7) in the "CLOSED" position if starting a cold engine.

9.4 Place the choke lever (Figure 8) in the "OPEN" position if starting a warm engine or the temperature is warm.

9.5 Place the engine ON/OFF switch (Figure 9) in the "ON" position.

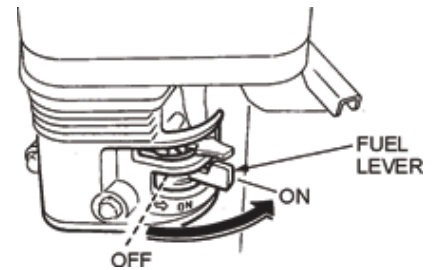


FIGURE 6

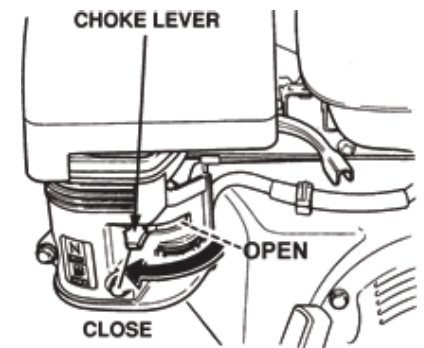


FIGURE 7

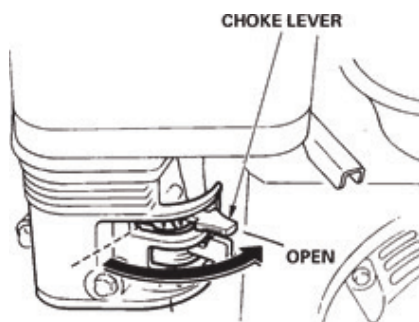


FIGURE 8

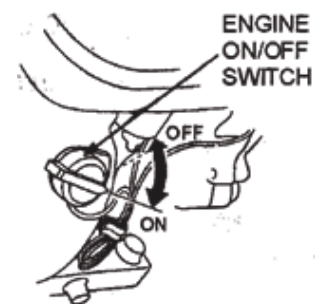


FIGURE 9

9. STARTING THE ENGINE CONTINUED

9.6 Grasp the starter grip (Figure 10) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.

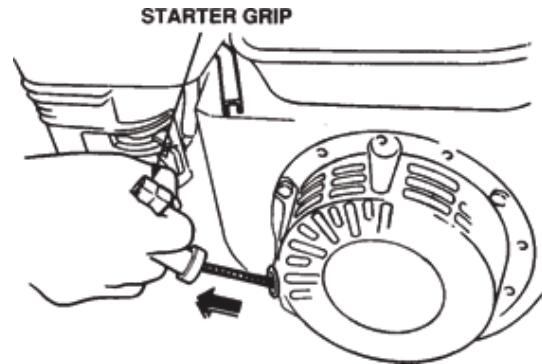


FIGURE 10

9.7 If the engine has started, slowly return the choke lever (Figure 7) to the OPEN position. If the engine has not started repeat steps 1 through 6.

9.8 Before the trowel is placed into operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a loose V-belt cover or component.

9.9 To begin troweling, move the throttle lever (Figure 11) toward the "FAST" position.

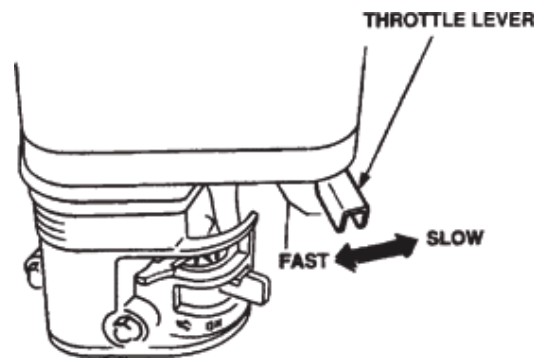


FIGURE 11

10. STOPPING THE ENGINE

10.1 Move the throttle lever to the IDLE or SLOW position (Figure 11) and run the engine for three minutes at low speed.

10.2 After the engine cools, turn the engine start/stop switch to the "OFF" position (Figure 12).

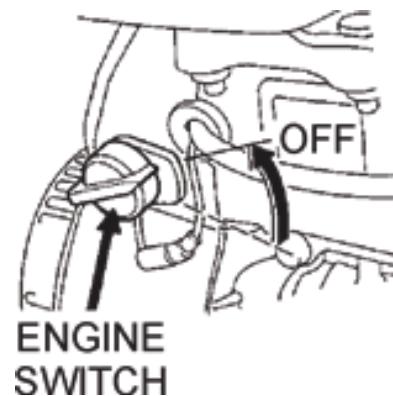


FIGURE 12

10.3 Close the fuel shut-off valve (Figure 13) by moving the fuel valve lever to the OFF position.

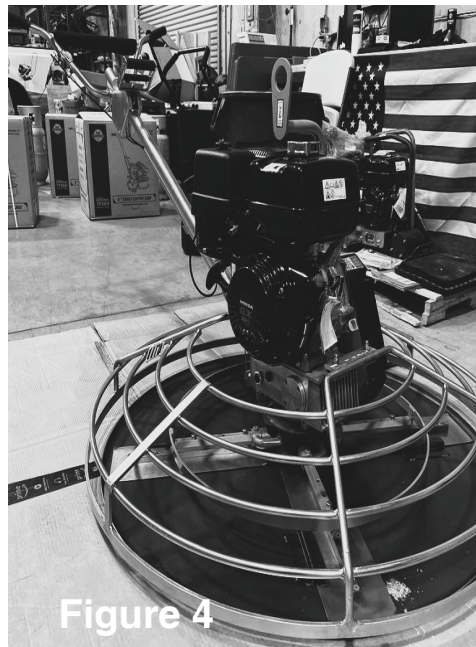
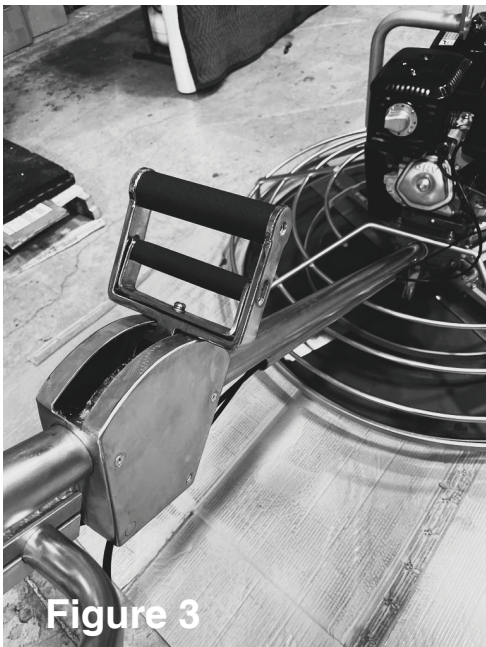


FIGURE 13

10. Fast Pitch Handle

10.1 Quick Pitch Blade

Blade tilt mechanism for quick blade angle adjustment (Figure 1-4)



14. TRAINING CHECKLIST

This checklist lists the requirements for proper machine maintenance and operation. Please feel free to detach it and make copies. Use this checklist whenever a new operator is to be trained.

TRAINING CHECKLIST			
NO.	DESCRIPTION	COMPLETED	DATE
1	Read Operator's Manual completely		
2	Understand machine layout, location of components, check engine and gearbox fluid level		
3	Understand fuel system, refueling procedure		
4	Understand how to operate machine		
5	Understand safety controls		
6	Understand emergency stop procedures		
7	Start Up the machine		
8	Properly Maneuver the machine		
9	Understand blade bitch adjusment		
10	Understand proper proper finishing techniques		
11	Understand how to shutdown of machine		
12	Understand how to safely lift the machine		
13	Understand proper machine transport and storage		

Operator _____

Trainee _____

Comments:



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