



Owner's Manual

Ramming Compactor

Models

TV5

TV6

TV72

Tiger Equipment LLC.

15 Byrd Lane

Rocky Mount, VA 24151

Tel: 540-489-7777

Fax: 540-489-7778

<http://www.tigerequip.com>

1. PREFACE

This manual contains important information on how to use Tacom Rammer Compactors properly and safely. Read through this manual BEFORE you attempt to operate the machine. Remember, it is the owner's responsibility to understand and communicate all information, especially safety and operation information, in this owner's manual to all operators of this unit.

2. SPECIFICATIONS

Model	TV5DX	TV6DX	TV6DK	TV72DK
Weight	122lbs (55kg)	139lbs (63kg)	146lbs (66kg)	164lbs (74kg)
Shoe Width	9.8 in (250mm)	11.0 in (280mm)		11.8in (300mm)
Shoe Length	13.1 in (332mm)	13.1 in (332mm)		13.2in (335mm)
Overall Width	15.0 in (380mm)	16.5 in (420mm)		17.9 in (455mm)
Overall Length	27.8 in (705mm)	30.0 in (763mm)		29.7 in (755mm)
Overall Height	39.0 in (990mm)	41.1 in (1045mm)		38.8 in (985mm)
Blows per minute	650-700	650-700	600-700	600-700
Impact Force	2425 lbs	3650 lbs	3650 lbs	4000 lbs
Engine Type	4 Stroke, Air Cooled, OHV Gasoline Engine			
Engine Model	Honda GX100K1		Honda GX120K1	
Engine Rated Output	2.3 hp (1.7KW)		3.5 hp (2.6KW)	
Engine Max. Output	3.0 hp (2.3KW)		4.0 hp (2.9KW)	
Fuel Tank Capacity	.53 Gal. (2.0 liters)	.80 US (3.0 liters)		
Fuel	Automotive Gasoline			

3. SAFETY

3.1. General Safety

The following safety instructions must be followed to avoid any property damage, personal injury, or possible death.

- 3.1.1. This machine must be operated by well-trained personnel, and for its intended purpose only.
- 3.1.2. The owner of the machine must observe, and have the operator of the machine observe, the effective labor protection regulations in the country of application.
- 3.1.3. This machine must be operated on the ground where the stability is guaranteed. When working near the rim of excavated trenches, use the machine properly so that the machine may not collapse or fall down.
- 3.1.4. Keep the work area clean and free from obstacles.
- 3.1.5. Keep unauthorized personnel away from the machine during operation.
- 3.1.6. ALWAYS wear proper ear protection, hard hat (helmet), dusk mask, safety goggles, gloves, and steel toe capped shoes during operation.
- 3.1.7. Set the engine switch to the "OFF" position before transportation or maintenance.
- 3.1.8. Close the fuel shut-off valve before transportation or storage.
- 3.1.9. Do not attempt to remove any cover or guard. Always check the condition of guards and covers before operation.
- 3.1.10. Never leave the engine running unattended.
- 3.1.11. This machine is heavy, and must not be lifted single-handedly. Use proper hoist to lift the machine.
- 3.1.12. The engine is liable to be extremely hot during and immediately after operation.
DO NOT TOUCH HOT ENGINE
- 3.1.13. Fuel is flammable. Handle Fuel Very Carefully.
- 3.1.14. Before refueling, switch off the engine and allow it to cool.
- 3.1.15. Wipe off any spilt fuel from the engine and the machine.
- 3.1.16. Keep the fuel in proper containers and in a safe place.
- 3.1.17. Exhaust Fumes Contain Poisonous Carbon Monoxide. Operate the machine only where proper ventilation is guaranteed.

3.2. Residual Risks

This machine is designed to eliminate the possible risks arising from the use of it. However, the risks DO reside, and these residual risks are not clearly recognizable, and may cause personal injury or property damage, and possible death. If such unpredictable and unrecognizable risks

become apparent, the machine must be stopped immediately, and the operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such event for future counter measuring.

3.2.1. Mechanical Hazard

Personal injury or property damage may be caused by knocks, crushing, slipping, tripping, falling or by flying chips due mainly to the improper or careless handling of the machine, or working in a confined area.

To prevent such hazards, wear proper working gloves, close-fitting clothing, protective shoes, and face and eye protection. Clear the obstacles around the site to prevent unpredictable movement of the machine.

3.2.2. Hazards caused by fuel and oil

Oil and fuel used in this machine may cause the following hazards:

- Poisoning if the fuel or oil vapor is inhaled.
- Allergies if the fuel or oil comes in contact with the skin.
- Fire and Explosion if the fuel and oil is handled near smoking or open fires.

WHEN HANDLING THE FUEL OR OIL, SMOKING OR USE OF OPEN FIRE IS STRICTLY PROHIBITED.

Keep the fuel and oil in the suitable and approved container, and keep the container in a cool and dark place to prevent any hazard arising from the storage. Use extra caution when handling fuel. Remember, gasoline is highly flammable. When refueling, be sure to do so after the engine has completely cooled off, and avoid spilling over the engine.

3.2.3. Hazards from noise

Noise from the machine itself, as well as noise from the ground being compacted, may cause hearing difficulties or physical disorder such as loss of balance or consciousness disorder. **WEAR PROPER EAR PROTECTION DURING OPERATION.**

4. INTENDED USE

This machine is intended for the compaction of road base, foundations, curbs, footing, and for the repair of streets, highways, sidewalks, or pavements.

5. CHECK BEFORE OPERATION

- 5.1. Check the entire machine for any sign of damage or leaks. Never attempt to run the machine before such damage or leak has been replaced or repaired.
- 5.2. Check the Engine Oil Level before operation. Place the machine on a level surface and remove the Oil Filler Cap. Check to see if the oil level is between L and H level using the oil level gauge at the filler cap.
- 5.3. Check the condition of the Air Filter element before each use. If the filter element is contaminated, clean the element or replace it in accordance with the instruction manual for the engine.
- 5.4. Check that the fuel is sufficient. If not, supply fuel. (See SAFETY instruction for the handling of fuel).

6. OPERATING INSTRUCTIONS

6.1. Operating the engine

NOTICE: Refer to the engine operation manual for detailed engine operating instructions.

- 6.1.1. Open the Fuel Shut-off Valve at the fuel tank.
- 6.1.2. Set the engine switch to "ON" position.
- 6.1.3. Set the Throttle Lever halfway between "H" and "L" position.
- 6.1.4. Move the Choke Lever to close it. When the engine is warm, let the lever partially open.
- 6.1.5. Hold the machine firmly with one hand, and slowly pull the recoil starter with the other hand, until you feel resistance.
- 6.1.6. Pull the recoil starter briskly to start the engine.
- 6.1.7. Move the Choke Lever to the "OPEN" position and let the engine run at idle for 2-3 minutes.

6.2. Operating the machine

- 6.2.1. Move the throttle lever quickly to "H" position
 - 6.2.1.1. Move the lever quickly. Slow setting may cause damage to the centrifugal clutch.

- 6.2.1.2. Always set the throttle lever to the highest position during operation. Improper setting may cause irregular tamping motion and premature wear of the machine.
- 6.2.1.3. The engine's maximum RPM has been set at the factory to produce the optimum engine power. DO NOT attempt to alter this setting.
- 6.2.2. At the maximum engine RPM, the machine gives impact to the ground while moving forward to compact the lift.
 - 6.2.2.1. Do not put pressure on the operation handle during the operation. The jumping motion would be hindered, and premature wear may result.
 - 6.2.2.2. Do not tilt the machine too much during operation. Keep the entire sole of the ramming shoe on the ground, otherwise premature wear of the ramming shoe will result.
 - 6.2.2.3. When compacting on damp soil, attach a cord to the pull fixture and have another person pull the cord to assist forward movement.
- 6.3. Stopping the machine
 - 6.3.1. Quickly move the throttle lever to "L" position and let the engine run at idle for 1 to 2 minutes.
 - 6.3.2. Close the fuel shut off valve.
 - 6.3.3. Set the engine switch to "OFF" position to stop the engine.

7. MAINTENANCE

- 7.1. The height of the handle can be adjusted by loosening three bolts at each side of the Operation Handle and retightening them at the desired handle height.
- 7.2. For the maintenance of the engine, refer to the instruction manual for the engine.
- 7.3. Check the tightness of every bolt and nut after each 8 hours of operation. Retighten if necessary.
- 7.4. Replace the oil in the ramming cylinder after the first 20 hours of operation. Thereafter, replace the oil after every 200 hours of operation.
 - 7.4.1. Remove the Oil Filler Plug at the protector, and tilt the machine to drain the old oil.
 - 7.4.2. Place the machine on a level surface at upright position and supply new oil. DO NOT OVERFILL. (Quantity: TV5, TV6 = 700cc; TV72 = 800cc). Recommended oil: SAE 10W30.

8. TRANSPORTATION

- 8.1. Before transportation, confirm that the fuel shut off valve is closed. It is recommended to consume all the fuel in the fuel line and the chamber of the carburetor by running the engine at idle while the fuel-shut off valve is closed. The engine will stop after all the remaining fuel has been consumed. Then, set the engine switch to "OFF" position.
- 8.2. Hold the machine firmly with one hand, and slowly pull the recoil starter with the other hand, until you feel resistance.
- 8.3. Be sure to let the engine cool off before transportation.
- 8.4. Place the machine in an upright position during transportation.
- 8.5. If the machine needs to be laid down, lay the machine to the right (when viewed from the operator's position). Never let the carburetor of the engine face downward or the engine oil may get into the carburetor or air cleaner and cause starting difficulties.
- 8.6. Secure the machine firmly to the vehicle during transportation.
- 8.7. Lifting the machine
 - 8.7.1. Before lifting the machine, check the condition of the Rubber Isolator for Handle. If there is any sign of crack or wear, replace the Rubber Isolator before lifting the machine.
 - 8.7.2. Follow the applicable safety instruction for the use of hoist or lift.

9. STORAGE

- 9.1. Make sure that the engine is completely cooled off.
- 9.2. Wipe off any dirt or oil on the machine.
- 9.3. Put the cover over the machine.
- 9.4. For long-term storage, remove fuel from the fuel tank. Also remove any fuel remaining in the fuel line and the chamber of the carburetor. To drain fuel from the chamber of the carburetor, remove the drain plug provided at the chamber and remove the fuel.

10. TROUBLESHOOTING

Trouble	Possible Causes	Counter Measure
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Engine will not start	Fuel is insufficient	Refuel with automotive gasoline
	Fuel cock is closed	Open the fuel cock.
	Engine switch is set to "OFF" position	Set the switch to "ON" position
	Spark plug contaminated or damaged	Replace the spark plug
	Improper spark plug gap	Correct the gap
Engine stops suddenly or stops when RPM is increased	See above	See above
	Main jet of the carburetor is clogged with dirt	Take out the main jet from the carburetor and clean the jet with compressed air
	Air filter element dirty	Clean the element
	Spark plug cap is loose	Tightly fit the plug cap to the plug
	Air filter in backwards	Insert air cleaner correctly.
Engine runs but the machine does not produce impact	Lack of engine power	See above
	Clutch slipping	Dismantle the clutch assembly, and clean the shoe and drum with proper solvent. Replace shoe if necessary.
	Crank/Gear unit damaged	Contact dealer