



DANGER



**READ AND OBEY ALL SAFETY AND OPERATING
INSTRUCTIONS BEFORE OPERATING TOOL.**



Ramset®

TRAKFAST™

RAMSET MODEL TF1100

TrakFast

**OPERATOR'S SAFETY & OPERATING
INSTRUCTION MANUAL**



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TRAKFAST TOOL OPERATING MANUAL

This manual is intended to acquaint you with Ramset's TrakFast tool. Unlike other power fastening tools, the TrakFast tool is powered by an linear internal combustion motor. In simpler terms, your TrakFast tool is powered by a motor similar to the one that powers an automobile. The tool ignites a fuel and air mixture to produce the energy to drive the motor, which in turn drives the fastener. As you will see, the TrakFast tool is totally self-contained. It carries its own fuel supply and battery, along with a supply of fasteners.

For ease of use, this manual is divided into sections (see Table of Contents). Each section of the manual is written with you, the tool operator, in mind. We have left out all of the technical terms so that you can readily understand how to get the maximum performance from your TrakFast tool, and how to avoid damaging the tool or injuring yourself. But, to accomplish this, we need you to do two things:

- 1. READ THE MANUAL FROM COVER TO COVER BEFORE USING THE TOOL.**
- 2. FOLLOW ALL INSTRUCTIONS IN THE MANUAL.**

The TrakFast tool should be handled like other power fastening tools that you use. When used properly, it will meet your fastening needs. And, like most of your tools, when used improperly it can cause injury. If you are going to allow others to use the TrakFast tool, it is your responsibility to make sure that they also read and comply with the instructions in this manual before attempting to operate the tool.

Should you have questions about the TrakFast system, or wish to obtain additional copies of this manual, please feel free to contact your Ramset Distributor Sales Representative.

TABLE OF CONTENTS / INTRODUCTION

AN OVERVIEW OF THE TRAKFAST TOOL

DESCRIPTION

The TrakFast tool is a self-contained, fully portable tool that uses liquid hydrocarbon fuel to power a unique linear drive internal combustion motor.

In order for you to fully understand the information contained in this manual, you need a basic understanding of the tool. As you can see in the illustration below, the TrakFast tool is made up of three assemblies: the Handle, the Motor, and the Magazine.

As you examine the TrakFast tool, become familiar with the three major assemblies and the various components located in each of them.

The Handle Assembly contains the Fuel Cell, the Battery Voltage Indicator Light, and the Trigger.

The Motor Assembly contains the Cover and Filter, the Motor Housing, the Nose, and the Work Contacting Element.

The Magazine Assembly contains the Magazine Locking Knob, the Battery Compartment, the Follower Release Lever, the Follower, and the Lockout Bar.

SPECIFICATIONS

Dimension: Height 15.5 inches
Length 17 inches

Weight: 8.375 pounds

Cycle Rate: Intermittent Operation 2 to 3 pins per second Continuous Operation 1000 pins per hour

NOTE: Exceeding these rates could cause the tool to overheat, resulting in loss of performance or damage to tool components.

By using the TrakFast tool at its recommended operation rate you will be able to drive several thousand fasteners in a typical workday.

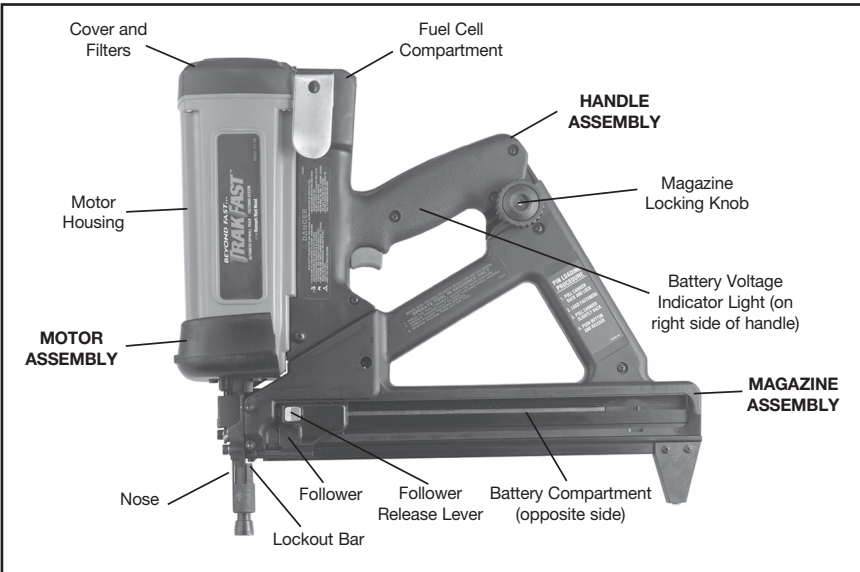
Maximum Fastener Length:

1-1/2 inch x .109 dia. shank

Magazine Capacity: 42 fasteners.

Battery Cell: 6 volts D.C. — Provides enough energy to drive approximately 3000 fasteners on a full charge.

Fuel Cell: Liquid hydrocarbon—Provides enough fuel to drive up to 1000 fasteners.



AN OVERVIEW OF THE TRAKFAST TOOL

SAFETY INSTRUCTIONS

The following safety instructions have been included in this manual to provide you with basic information necessary for safe operation of the TrakFast Tool. **DO NOT ATTEMPT TO OPERATE THIS TOOL UNTIL YOU READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND MANUAL INSTRUCTIONS.**

Failure to follow all safety precautions and manual instructions can result in blindness, severe personal injury, damage to personal property, and damage to the tool.

In addition to these instructions, additional training may be necessary, depending upon the type of fastening you wish to do. Contact your Ramset Distributor Representative for additional information.

DANGER



Do not attempt to operate this tool until you have read and understood all safety precautions and manual instructions.

Failure to follow all safety precautions and instructions may result in a permanent loss of vision, serious personal or even fatal injury, property damage and/or tool damage.



The TrakFast Tool is an internal combustion device. It produces hot exhaust gases that may ignite

flammable materials. This tool must not be used in a combustible environment or in the presence of combustible materials, such as flammable chemicals, adhesives, gasoline, or solvents.



Do not expose the tool to temperatures in excess of 120°F (49°C). Fuel and/or the battery may burst, releasing flammable gas.



This tool must be operated only in a well-ventilated environment, because the tool exhausts carbon monoxide similar to a gas chainsaw or lawnmower. Exposure to carbon monoxide may cause dizziness, nausea, or unconsciousness.



ALWAYS keep the TrakFast Tool, fuel cell, battery cell and battery charger out of the reach of children.

1. READ THIS MANUAL FROM COVER TO COVER.

Always turn to this manual for information about the safe operation and servicing of the TrakFast tool. If any portion seems unclear, or you have any questions, contact your Ramset Distributor Representative immediately.

2. WEAR EYE AND HEARING PROTECTION.

Always wear hearing and eye protection devices when you are operating the TrakFast tool or working in the vicinity of this tool. Also, your eye protection must meet the requirement of ANSI Standard Z87, and should have side shields for increased protection.



3. NEVER ASSUME THE TOOL IS EMPTY.

Every time you pick up the TrakFast tool, check the Magazine for fasteners. Never point the tool at anyone or yourself, even if you are absolutely sure there are no fasteners in the tool. The fastener you did not see is the fastener that can injure you or someone else.

4. NEVER ENGAGE IN "HORSEPLAY" WITH THE TOOL.

The TrakFast tool is not a toy. . . it is a power fastening tool. It is designed to drive a fastener through steel sheets into concrete. To accomplish this task, it generates a tremendous amount of energy. Fooling around, even when you are absolutely sure there are no fasteners in the tool, is asking for an accident.

SAFETY INSTRUCTIONS

5. NEVER CARRY THE TOOL WITH YOUR FINGER ON, OR DEPRESSING, THE TRIGGER. You must remember that the TrakFast tool operates in a specific sequence. The Work Contacting Element acts as an operating feature that blocks the Trigger from completing the ignition circuit. Should you unintentionally depress the Work Contacting Element while pulling the Trigger as you are carrying the tool... it could discharge a fastener.

6. NEVER OPERATE A TOOL THAT IS MALFUNCTIONING. If you determine that the TrakFast tool is not working properly, and the problem is more than a simple fastener jam, stop using it immediately and refer to the Servicing Section of this manual. If the problem cannot be corrected with one of the steps covered in the Servicing Section, report the problem to your supervisor or Ramset Distributor representative.

Do not attempt to make any additional repairs to the TrakFast tool.

7. OPERATE THE TOOL ONLY ON THE WORK SURFACE. The TrakFast tool should be operated only when it is in contact with the work surface. Always hold the tool firm and perpendicular against the surface to be fastened.



8. NEVER DISABLE OR REMOVE THE WORK CONTACTING ELEMENT. The TrakFast tool is equipped with a device called the Work Contacting Element. This device helps reduce the possibility of accidental operation by preventing the tool from operating until it is fully depressed on the work surface. The Work Contacting Element must never be disabled or removed. Do not use the TrakFast tool if the Work Contacting Element is not working properly.

9. DO NOT LOAD FASTENERS WITH THE TRIGGER OR WORK CONTACTING ELEMENT DEPRESSED. When loading fasteners into the TrakFast tool, you must avoid pulling the Trigger or while having the

Work Contacting Element depressed. When the tool is placed on a bench or other surface, the Work Contacting Element might be depressed. When you are loading fasteners, you could accidentally pull the Trigger by grasping the Handle to steady the tool. These two actions will cause the TrakFast tool to operate, discharging a fastener.

10. FASTENER REMOVAL OR CLEARING JAMS. With the TrakFast tool pointed away from you and others, pull the Follower back slightly and push the Release Lever. Tip the tool Nose up slightly, and the fasteners will slide out the rear of the Magazine. If you have a jammed fastener, or other problem with the operation of your TrakFast tool you should stop attempting to use the tool and refer immediately to the Servicing Section of the manual.

11. NEVER ATTEMPT TO OPERATE THE TRAKFAST TOOL IF PARTS ARE LOOSE, DAMAGED, OR MISSING. Make sure all screws and nuts are properly tightened and all parts are properly installed and in good working order. If parts are missing, don't attempt to make temporary repairs...contact your Sales Representative immediately.

12. NEVER DRIVE FASTENERS ON TOP OF OTHER FASTENERS OR TOO CLOSE TO OTHER FASTENERS. Fastening on top of or too close to other fasteners can cause the fastener to ricochet and cause serious injury. Fasten only in areas where the entire shank can penetrate.

13. NEVER FASTEN INTO INAPPROPRIATE BASE MATERIAL. Materials such as hardened steel, the web or edge of an I-beam, or steel that is too thick may cause the fastener to bend and or break and could cause serious injury. Ramset performance data offers a guideline of appropriate base materials and thicknesses.

14. NEVER FIRE INTO VERY HARD OR BRITTLE MATERIALS SUCH AS CAST IRON, TILE, GLASS, OR ROCK. These materials can shatter, causing sharp fragments and/or the fastener to fly freely.

SAFETY INSTRUCTIONS

15. ALWAYS FOLLOW MINIMUM FASTENER EDGE DISTANCE AND SPACING REQUIREMENTS. The minimum edge distance and spacing requirement for concrete base materials is three-inches. The minimum edge distance for steel base material is ½-inch. The minimum spacing for steel base materials is 1-1/2-inches. Fasteners installed closer to one another or to the edge may cause damage to the base material or result in a loss of fastener performance.

16. NEVER CARRY FASTENERS OR OTHER HARD OBJECTS IN THE SAME POCKET OR CONTAINER WITH FUEL CELL. The Fuel Cell could be punctured, causing serious injury.

17. NEVER ALLOW ANYONE TO USE THE TRAKFAST TOOL UNLESS THEY READ AND UNDERSTAND THE TOOL MANUAL AND ALL SAFETY INSTRUCTIONS. It is the tool owner's responsibility to make sure that all TrakFast tool users read and fully understand all tool operation, safety and maintenance instructions.

18. FUEL CELL STORAGE. Fuel Cells contain flammable gases which are under pressure and must be stored in an area



where they will not be exposed to an open flame, sparks, or temperatures above 120° Fahrenheit (49° Centigrade). Exposure to temperatures above 120°F (49°C) may cause the Fuel Cells to leak or burst, releasing the flammable gases and creating a risk of fire or explosion.

19. FUEL CELL DISPOSAL. Never attempt to puncture, crush, burn or refill a Fuel Cell. Always dispose of empty Cells with trash that will not be burned. Also, never place the Fuel Cell with other materials for reclamation or recycling.

20. TOOL STORAGE. At the end of every workday, remove the Battery Cell and store it in the carrying case. Recharge the Cell only if required as indicated by a red charge light in the handle.

21. KEEP THE TOOL CLEAN. At the end of each work day, take a minute to wipe the TrakFast tool with a clean rag. A dirty tool is more likely to jam or malfunction.

22. NEVER PLACE YOUR HAND OR FINGERS OVER THE NOSE OF THE TOOL.

The fastener or piston can seriously injure your hand in the event of an accidental discharge.



SAFETY INSTRUCTIONS

THE BATTERY AND CHARGING SYSTEM

BATTERY CELL AND CHARGER

The first step in preparing a new tool for operation is to fully charge the new Battery. New Batteries are shipped discharged and must be charged for 24 hours before first use. All subsequent charges will require at most a 3 hour charge.



WARNING



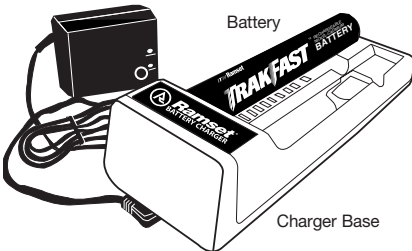
Important Charging Notes



CHEMICAL/EXPLOSION HAZARD Read ALL instructions before charging or using battery. Failure to follow ALL instructions may result in fire, severe burns, or release of toxic materials.

Battery Disposal: The EPA certified RBRCQ® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates Ramset is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRCQ® program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-8-BATTERY™ (1-800-822-8837) for information on Ni-Cd battery recycling and disposal in your area. Ramset's involvement in this program is part of our commitment to preserving our environment and conserving our natural resources.

Wall Mount Unit



Ramset Cordless Charging System

CHARGING INSTRUCTIONS

1. Connect the round plug of the wall mount unit to the front of the charger base and plug the wall mount unit into any 120V AC outlet. A LED by the plug indicates the base unit has power.
2. Set the charger base on a stable surface and insert the battery or batteries, contact first, into the opening of the charger base.
3. The TrakFast charger incorporates a charge level indicator to inform the user of the battery charge level.

A red light will illuminate at all times during a charge cycle.

One green light

= battery at 50% capacity

Two green lights

= battery at 75% capacity

Three green lights

= battery at FULL capacity

The red light will not be lit when the battery is at full charge.

CHARGING DONT'S

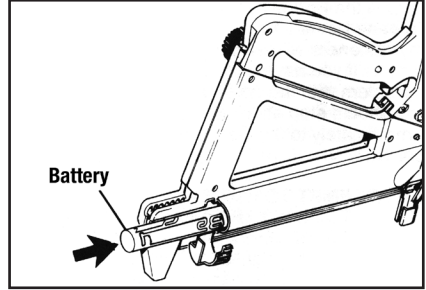
- Do not charge battery when temperature is below 40°F (5°C).
- Do not drop battery or charger.
- Do not allow metal objects to come in contact with battery terminals.
- Do not puncture or attempt to open battery case or cells.
- Do not store battery where it will be subjected to temperatures above 120°F (49°C).
- Do not incinerate battery.
- Do not use a defective battery charger, one that overheats and/or smokes when plugged in.

THE BATTERY AND CHARGING SYSTEM

THE BATTERY AND CHARGING SYSTEM

INSERTING BATTERY

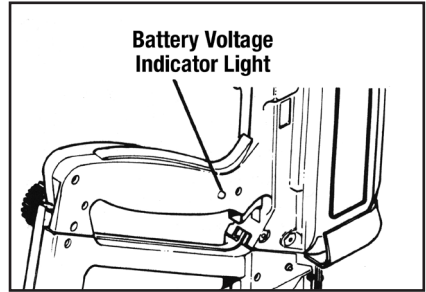
1. Load the Battery, contacts first, into the TrakFast tool.
2. Lock Battery into place with Battery Clip.



BATTERY INDICATOR LIGHT

The illustration is a closeup of the side of the TrakFast tool. On the side of the Handle is a small plastic lens. This is the Battery Voltage Indicator Light

To check the battery voltage, the LED on the right should be flashing or blinking green. Pushing down on the Work Contact Element will turn on Fan Motor and LED will be a solid green. If the LED blinks or glows red, recharge the Battery.



THE BATTERY AND CHARGING SYSTEM

FUEL CELL AND METERING VALVE

Fuel Cell



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EXPLOSION/FIRE HAZARD

Read ALL safety instructions before using or handling the fuel cell. Failure to follow ALL instructions may result in explosion or fire. This may cause severe personal injuries or property damage.



Keep the fuel cell away from heat, sparks and open flame.



Exposure to temperatures above 120°F (49°C) may cause the fuel cell to burst, releasing flammable gas.



WARNING



- Sunlight can raise the inside temperature of an unventilated car or van to above 140°F (60°C).
 - Do not puncture or attempt to open the fuel cell; it is non-refillable.
 - Do not incinerate, reclaim or recycle the fuel cell.
 - Do not smoke while installing or removing the metering cell.
 - Do not inhale the spray.
 - Keep out of the reach of children.
 - Store fuel cell(s) in well-ventilated areas only.
 - Do not reuse metering valve.
-

There is a second container inside the fuel cell. The inner container holds the fuel. The space between the inner container and the outer cylinder is filled with a gas, called the propellant, which is under pressure.

To eject the fuel, propellant pressure squeezes the inner fuel container, much as you squeeze a tube of toothpaste. This squeezing action ensures that all the fuel is used, and that the TrakFast tool can operate in any position.

Because of this container-within-a-container design, you might hear the sound of fluid when shaking the fuel cell after all the fuel has been used. This is the propellant, which remains between the containers even after all the fuel has been expelled.

If you expose the empty fuel cell to extreme temperatures, the propellant gas will expand and could cause the container to burst, releasing flammable gases.

Metering Valve

The metering valve contains a fuel metering system to inject the correct amount of fuel into the combustion chamber.

The **red** metering valve is the only valve that will operate properly with the TrakFast tool.

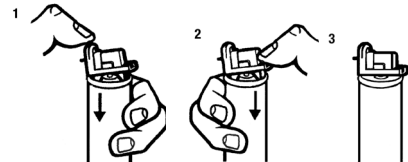
NOTE:

1. Do not attempt to reuse the metering valve! Replace with fresh fuel cell/valve, and dispose of spent cell/valve properly.
2. When replacing fuel cell also clean or replace air filter for optimum tool operation.

Attaching Metering Valve to Fuel Cell

To attach the metering valve to a fuel cell:

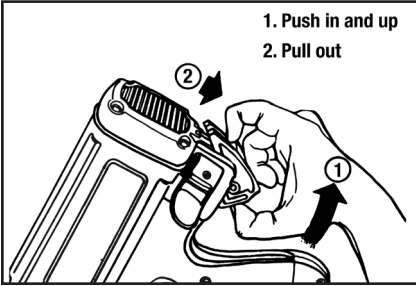
1. Press downward on the front side of the valve (stem side) until it seats.
2. Press downward on the rear of the valve unit it seats.
3. The valve is now completely seated on the fuel can and can be inserted into the tool.



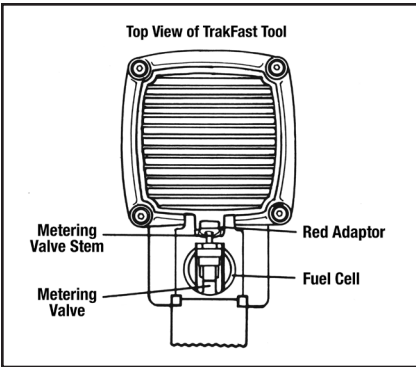
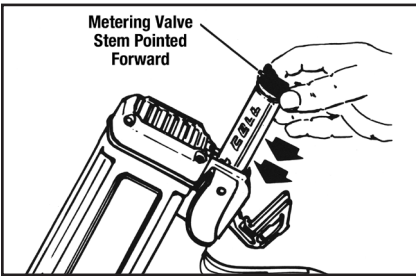
FUEL CELL AND METERING VALVE

FUEL CELL AND METERING VALVE

INSERTING FUEL CELL



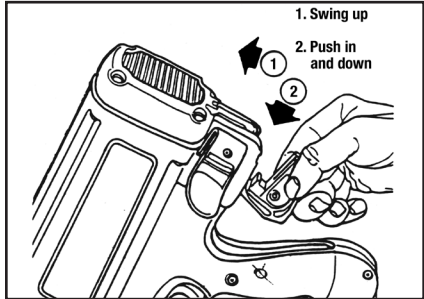
With the Metering Valve Stem pointed toward the front of the tool, insert the Metering Valve/Fuel Cell Assembly.



As you slide the Metering Valve/Fuel Cell Assembly into the TrakFast tool, you will notice that there is a Red Adaptor at the top of the Cylinder Pocket. As is shown in the illustration, this Adaptor is designed to ensure that the Metering Valve Stem is properly aligned with the small hole, or orifice that

leads to the Combustion Chamber. Insert the Metering Valve Stem into the orifice of the red colored Adaptor.

You complete the loading of Fuel in the TrakFast tool by closing the Actuator Cover. You do this by swinging it up and over the Fuel Valve/Cylinder Assembly and pushing down until the Actuator Cover snaps into position.



OUTDOOR WEATHER AND THE TRAKFAST TOOL

Use the TrakFast tool outdoors, in clear weather, when the Tool, Fuel Cell, and Battery are between 20°F (-7°C) and 120°F (49°C). Colder temperatures may damage the TrakFast Tool and Battery Cell. Hotter temperatures may damage the Tool and Fuel Cell. Fuel should be stored out of direct sunlight in surroundings less than 120°F (49°C). After extended periods of continuous use, cool the Tool by running the Fan Motor.

Operation when the Tool is less than 20°F (-7°C) may damage the tool. Fuel Cells at cold temperatures lose the required propellant force. Bring the Tool, Battery Cell, and Fuel Cell above minimum operating temperature without direct exposure to flame, and check the Battery.



The TrakFast tool should not be used in the rain or where excessive moisture is present. These conditions may result in damage to tool components and cause tool to malfunction.

FUEL CELL AND METERING VALVE

PREPARING AND USE OF TRAKFAST TOOL

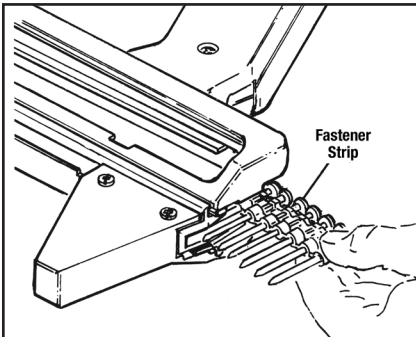
FASTENERS

The TrakFast tool can drive only Ramset fasteners which have been collated into strips. Any other fastener will cause tool damage and void your warranty.

LOADING FASTENERS

The illustration below shows how to properly load fasteners into the TrakFast tool.

1. Pull the carrier assembly back until it locks.
2. Load four fastener strips into the rear slot of the magazine.
3. Pull the carrier assembly slightly back, push the follower button in, and gently release the assembly to engage the fasteners.



The Trigger on the TrakFast tool is automatically locked and will not operate when there is less than 2 fasteners in the feed magazine and unless the work contact element is fully depressed. The purpose of this feature is to prevent needless blank cycling, which could damage tool components.



⚠ DANGER ⚠



Two (2) fasteners will be left in the Magazine after strips have been used. At this point you can reload. It does not indicate that the tool is empty. Because of a lockout feature in the TrakFast tool, it will not operate when the fastener supply in the tool is less than two (2) fasteners.

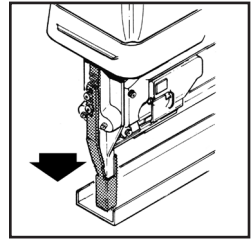
TRAKFAST TOOL OPERATION

Press Work Contacting Element Against Work Surface

Fan Motor will turn on.

LED will be steady green.

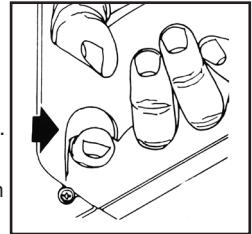
Fuel is injected into Combustion Chamber and mixed with air by the Fan.



Squeeze the Trigger

The Spark Plug sparks and fuel/air mixture ignites.

Combustion powers the Piston Assembly driving fastener.



Release Trigger—Lift the Tool

The Combustion Chamber opens.

Fan exhausts hot gases and cools internal components.

NOTE: if no additional cycles are made, fan will run for 7 seconds and then shut off.



⚠ WARNING ⚠



The Work Contacting Element and nose may become hot after prolonged or rapid use.

PREPARING AND USE OF TRAKFAST TOOL

SERVICING

Field service should be restricted to the following:

- CHECKING THE ENERGY LEVEL OF THE BATTERY
- RECHARGING THE BATTERY
- CHECKING THE FUEL CELL AND METERING VALVE
- REPLACING THE FUEL CELL
- CLEANING THE AIR FILTERS
- CLEARING A JAM

Attempts to go beyond these procedures could result in serious personal injury or damage to the TrakFast tool and voiding of the warranty.

There are certain problems that you may encounter when you are using the TrakFast tool that you will be able to correct on the work site. The following field service procedures are the only service procedures you should attempt. Anything else that may appear wrong with the TrakFast tool should only be diagnosed and repaired by a fully trained service technician. If you have any reason to believe that your problem is beyond the service procedures in this manual, contact your Sales Representative immediately,



Never attempt any maintenance of the TrakFast tool without first removing the Fuel Cell. Maintenance should only be started after the tool is completely inoperative.

BATTERY CELL CHECK

Periodically check on the LED Battery Voltage Indicator Light—the LED in the Handle of the TrakFast tool. When encountering a problem, the first step should always be to make sure the Battery has enough energy to operate the tool.

If the light is red, recharge the Battery, if the light is glowing green, indicating that the Battery is charged, check the ignition system.

FUEL CELL CHECK

Another typical service condition will occur when the Fuel Cell becomes empty. A typical symptom will be when the TrakFast tool's Fan operates and the LED is green, but the tool does not drive fasteners completely. In this case, take the Fuel Cell out of the tool, check to see if the Cell still contains fuel and that the Metering Valve is working. To determine if there is any fuel left in the Fuel Cell simply place the Metering Stem against a solid object, and gently push about three or four times. A small amount of fuel should be released each time. Never perform this test near an open flame or sparks, while smoking, or where the fuel may get into your eyes. If fuel is not released with each operation of the Metering Valve, this indicates that there is no more fuel left in the cylinder and it must be replaced. Dispose of the empty Fuel Cell properly.

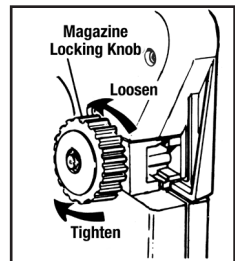
AIR FILTER

Open the cover by pressing slightly above the Red Adapter, and pivoting the cover open. The Air Filter simply lift out. Tap the filter GENTLY to remove any dust. You should check and clean the Air Filter every two days.

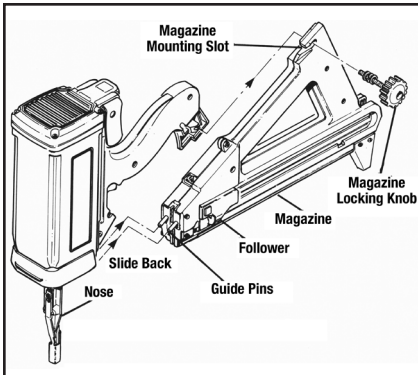
CLEARING A JAM

A typical problem you may encounter is having a jammed fastener. Because of the unique design of the TrakFast tool, clearing a jammed fastener is easy.

1. Pull the Carrier Assembly back until it locks.
2. Loosen the Magazine Locking Knob three full turns.
3. Remove the Magazine by sliding it away from the nose of the tool.



SERVICING



CLEARING A JAM (continued)

At this point, the jammed fastener should fall out. If the jammed fastener does not fall out, carefully remove the fastener taking care not to damage the Shear Block.

After you have removed the jammed fastener take the following steps to reattach the Magazine to the tool:

1. Use the two guide pins to align the Magazine at the nose of the tool.
2. Position the Magazine mounting slot over the locking knob screw.
3. Slide the Magazine firmly against the nose.
4. Tighten the Magazine Locking Knob and reload the tool.



DANGER



Make sure Magazine is all the way forward against the nose and Magazine Locking Knob is tightened securely before operating tool. Attempting to use tool with a loose Magazine may result in loss of fastener control, damage to tool, or pin discharge toward tool operator.

If you find that the TrakFast tool's Fan does not operate after clearing a jam:

Check the condition of your Battery Cell.

If the Handle LED indicator emits a constant red glow when depressing the tool, recharge the Battery.

END-OF-WORKDAY ROUTINE

At the end of each workday, conduct an end-of-workday routine. These simple steps are based on maintaining the safety and operational efficiency of the TrakFast tool.

Before you leave the worksite:

1. Remove the Battery and store in the tool case. Always use the TrakFast tool case for transporting and storing the tool.
2. Dispose of all empty Fuel Cells. Remember to dispose of these cells where they will not be found by children, crushed, punctured, or burned.
3. Place the Battery Cell in its Charger only if it needs charging as indicated by the red charge light in the handle.
4. Wipe your TrakFast tool with a clean, soft cloth.
5. Check Work Contacting Element to ensure it is operating freely.

These simple steps will not only ensure that your TrakFast tool is ready to go to work the next day, but will also ensure that you get the maximum efficiency from your tool.

TRAKFAST TOOL ACCESSORIES

A variety of accessories are available for the TrakFast tool:

- Battery Cells
- Clear Safety Glasses
- TrakFast Tool Charger

Contact your Ramset Distributor Sales Representative for additional information. act your Sales Representative immediately.

TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Preparing Tool for Operation—Battery/Charger Problems		
<ul style="list-style-type: none"> – Battery Cell does not appear to accept charge. Green charger light does not come on. 	<ul style="list-style-type: none"> – Inoperative indicator lights on charger. 	<ul style="list-style-type: none"> – Try Battery Cell in tool after 3 hours on charge cycle. If tool LED is green, charger lights are not working properly. Replace charger, monitor charging time to ensure Battery Cell has adequate time for recharging. It's normal for Battery to feel warm after properly charging.
	<ul style="list-style-type: none"> – Battery Cell damaged or cycle life exhausted. 	<ul style="list-style-type: none"> – Replace Battery Cell.
	<ul style="list-style-type: none"> – Damaged charger. 	<ul style="list-style-type: none"> – Discontinue use immediately and unplug from power source. Replace charger and tag or dispose of charger to prevent accidental reuse or connection to power source.
<ul style="list-style-type: none"> – Flashing lights on charger base unit. 	<ul style="list-style-type: none"> – Damaged Battery Cell – Battery Completely Drained 	<ul style="list-style-type: none"> – Replace Battery – Allow Battery to Charge for 5 minutes
Normal Stage of Operation		
<ul style="list-style-type: none"> – Fan does not run—tool LED is off. 	<ul style="list-style-type: none"> – Battery Cell is not charged. 	<ul style="list-style-type: none"> – Charge Battery Cell according to Operating Manual.
	<ul style="list-style-type: none"> – Magazine is loose, preventing current flow from Magazine to Handle and Cylinder Head. 	<ul style="list-style-type: none"> – Make sure Magazine is tight to nose of tool, and secure with magazine Locking Knob.
	<ul style="list-style-type: none"> – Magazine contacts at top of Magazine, or contact posts in base of Handle, are oily, dirty, or corroded. 	<ul style="list-style-type: none"> – Clean contacts as required.
	<ul style="list-style-type: none"> – Battery Terminals or Magazine battery contacts are oily, dirty, or corroded. 	<ul style="list-style-type: none"> – Clean Battery Cell terminals. Clean Magazine Battery Cell contacts as required.
<ul style="list-style-type: none"> – Fan does not run, or runs slower than normal—tool LED is red. 	<ul style="list-style-type: none"> – Battery Cell is discharged. 	<ul style="list-style-type: none"> – Charge Battery Cell.
<ul style="list-style-type: none"> – Fan runs intermittently. 	<ul style="list-style-type: none"> – Magazine is loose or contacts are bent. 	<ul style="list-style-type: none"> – Tighten Magazine, or bend contacts up.

TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Pre-Combustion/Combustion Stage of Operation		
<ul style="list-style-type: none"> – Work Contacting Element does not depress fully—tool does not operate. 	<ul style="list-style-type: none"> – Lockout Bracket is stuck in lockout position. 	<ul style="list-style-type: none"> – Check Negator Cover screw for excessive tightness. Remove cover if necessary and clean out build-up of debris from track.
	<ul style="list-style-type: none"> – Work Contacting Element is bent, or build-up of debris in track restricts operation. 	<ul style="list-style-type: none"> – Remove and inspect Lower Probe. Clean track with cloth. Repair or replace Lower Probe as required.
	<ul style="list-style-type: none"> – Follower is not behind strip. 	<ul style="list-style-type: none"> – Put follower behind strip.
	<ul style="list-style-type: none"> – Fan motor O-Ring pinched. 	<ul style="list-style-type: none"> – Contact Authorized Ramset Distributor Sales Representative for service.
<ul style="list-style-type: none"> – Tool will not cycle-fan runs, LED is green. 	<ul style="list-style-type: none"> – Fuel Cell is empty. 	<ul style="list-style-type: none"> – Replace Fuel Cell.
	<ul style="list-style-type: none"> – Spark Wire out of spark plug. 	<ul style="list-style-type: none"> – Contact Authorized Ramset Distributor Sales Representative for service.
	<ul style="list-style-type: none"> – Spark does not occur. 	<ul style="list-style-type: none"> – Contact Authorized Ramset Distributor Sales Representative for service.
Power/Exhaust Stage of Operation		
<ul style="list-style-type: none"> – Tool operates properly, but fasteners do not drive fully. 	<ul style="list-style-type: none"> – Battery cell is discharged. 	<ul style="list-style-type: none"> – Charge Battery Cell.
	<ul style="list-style-type: none"> – Fuel Cell is low. 	<ul style="list-style-type: none"> – Check Fuel Cell according to Operating Manual and replace as required.
	<ul style="list-style-type: none"> – There may be loss of seal in combustion chamber. 	<ul style="list-style-type: none"> – Press Work Contact Element against work-piece for one minute. Pull trigger. If fastener does not drive, there is a leak that requires service.
<ul style="list-style-type: none"> – Tool operates, but no fastener is driven. 	<ul style="list-style-type: none"> – Fastener strip may be binding. 	<ul style="list-style-type: none"> – Use only fasteners meeting Ramset specifications.
	<ul style="list-style-type: none"> – Follower not properly engaged behind fastener. 	<ul style="list-style-type: none"> – Locate follower behind fastener strip and engage strip according to instructions in Operating Manual.
	<ul style="list-style-type: none"> – Jammed fastener. 	<ul style="list-style-type: none"> – Clear jam according to Operating Manual.
<ul style="list-style-type: none"> – Tool operates erratically or appears to be losing power—tool LED is green. 	<ul style="list-style-type: none"> – Fuel Cell is low. 	<ul style="list-style-type: none"> – Check Fuel Cell according to Operating Manual.
	<ul style="list-style-type: none"> – Spark Plug wire is loose. 	<ul style="list-style-type: none"> – Contact Ramset Distributor Sales Representative for Service.
	<ul style="list-style-type: none"> – Filter element is dirty, causing tool to overheat. 	<ul style="list-style-type: none"> – Remove Filter element and clean according to Operating Manual. Use safe cleaning solution to remove stubborn debris.
	<ul style="list-style-type: none"> – Tool Sleeve or O-Rings are dirty. 	<ul style="list-style-type: none"> – Clean tool per Cleaning Procedure.

TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Returning/Purging Stage of Operation		
– Tool operated and drove fastener, but piston did not return to up position.	– Built-up dirt and debris on Piston or in Nose bore.	– Clean Piston and Nose bore with safety solvent.
	– Mushrooming of Piston Tip.	– Contact Ramset Distributor Sales Representative for service.
	– Exhaust ports on the Sleeve are dirty or clogged.	– Return tool to Authorized Ramset Distributor Sales Representative for service.
	– Tool (Sleeve) or O-Rings are dirty.	– Clean tool per Cleaning Procedure.
– Combustion Chamber does not drop after tool cycles.	– Work Contacting Element is bent, or tool is dirty.	– Clean tool or replace Work Contacting Element as required.

If the TrakFast tool will not operate after following the above service directions, return the tool to an Ramset Distributor Sales Representative for service.

800-241-5640
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RAMSET GAS TOOL SYSTEMS WARRANTY AND LIMITATIONS

Ramset warrants that new TrakFast systems power fastening tools, parts and accessories will be free from defects in material and workmanship for the period shown below.

TWO-YEAR/50,000 SHOT WARRANTY

A two-year/50,000 shot warranty, which ever comes first, will apply to all parts, except those listed below as normal wearing parts, or parts which are specifically covered by an extended warranty.

SIX-MONTH/10,000 SHOT WARRANTY

A six-month/10,000 shot warranty applies to the following parts, which are considered normal wearing parts:

- Bumper
- Piston Assembly
- O-Rings
- Piston Rings

The warranty period is based off of tool build date, determined from the tool serial number. Ramset may extend the warranty time frame from the date of purchase with a qualifying document proving date of purchase.

WARRANTY STATEMENT

Ramset's sole liability hereunder will be to replace any part or accessory which proves to be defective within the specific time period. Any replacement part or accessory provided in accordance with this warranty will carry a warranty for the balance of the period of warranty applicable to the part it replaces. This warranty does not apply to part replacement required due to normal wear.

This warranty is void as to any tool which has been subjected to misuse, abuse, accidental or intentional damage, use with fasteners, fuel, battery, or battery chargers not meeting Ramset specification, size, or quality, improperly maintained, repaired with other than genuine TrakFast replacement parts, damaged in transit or handling, or which, in Ramset's opinion, has been altered or repaired in a way that affects or detracts from the performance of the tool.

Ramset MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS, OR OTHERWISE, EXCEPT AS STATED ABOVE and the liability AS STATED ABOVE AND AS ASSUMED ABOVE is in lieu of all other warranties arising out of, or in connection with, the use and performance of the tool, except to the extent otherwise provided by applicable law.

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Ramset reserves the right to change specifications, equipment, or designs at any time without notice and without incurring obligation.

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