

Estes 1469

Estes 1469 Tandem X Rocket Launch Set User Manual

Instructions for Assembly, Operation, and Safety

1. INTRODUCTION

The Estes 1469 Tandem X Rocket Launch Set provides an engaging experience for model rocket enthusiasts. This set includes two distinct model rockets, the Amazon and the Crossfire ISX, along with a complete launch system. This manual details the assembly process, required materials, launch procedures, safety guidelines, and technical specifications to ensure a successful and safe rocketry experience.



Image 1.1: The Estes Tandem X Rocket Launch Set packaging, displaying both the Amazon and Crossfire ISX model rockets.

2. SAFETY INFORMATION

Model rocketry involves inherent risks. Adherence to safety guidelines is paramount for preventing accidents and ensuring a positive experience. Always follow the NAR (National Association of Rocketry) model rocket safety code during operation.

- **Launch Site:** Select a large, open area free of dry weeds, brown grass, or other flammable materials. Ensure sufficient clear space for rocket ascent and descent.
- **Distance:** Maintain a safe distance of at least 15 feet from the launch pad during countdown and launch.
- **Adult Supervision:** Adult supervision is recommended for users under 12 years of age.
- **Pre-Launch Check:** Always perform a thorough pre-launch check of the rocket and launch system.
- **Ignition:** Only use the provided Electron Beam Controller for ignition. Insert the safety key only when

ready to launch.

- **Recovery:** Ensure the recovery system (parachute) is properly packed to allow for safe descent. Do not attempt to catch a falling rocket.
- **Engines:** Use only Estes-approved model rocket engines. Never modify engines or use homemade propellants.
- **Weather Conditions:** Do not launch in high winds, near power lines, or in adverse weather conditions.

3. WHAT'S INCLUDED

The Estes 1469 Tandem X Rocket Launch Set includes the following components:

- Amazon Rocket Kit (E2X - Easy to Assemble)
- Crossfire ISX Rocket Kit (Skill Level 1)
- Two Plastic Parachutes (one for each rocket)
- Porta-Pad II Launch Pad
- Electron Beam Launch Controller
- Instruction Guide



WHAT'S INCLUDED

- ★ Amazon rocket kit
- ★ Crossfire ISX rocket kit
- ★ Porta-Pad II Launch Pad
- ★ Electron Beam Launch Controller

Length

Amazon: 29.4" (74.7 cm)
Crossfire ISX: 15.6" (39.6 cm)

Diameter

Amazon: 1.33" (34 mm)
Crossfire ISX: 0.98" (25 mm)

Weight

Amazon: 3 oz. (85 g)
Crossfire ISX: 1.3 oz. (37 g)

1-hour assembly time per rocket (not including dry time)

4. REQUIRED MATERIALS (NOT INCLUDED)

To build and launch your rockets, you will need to acquire the following items separately:

- Estes Model Rocket Engines (specific types listed in Section 8)
- Starters (included with engines)
- Recovery Wadding
- 4 high-quality 1.5-volt AA alkaline batteries (for Electron Beam Controller)
- Scissors
- Fine sandpaper
- Carpenter's glue (e.g., white glue)
- Plastic cement (for plastic parts)
- Hobby knife
- Masking tape



TO BUILD

- ★ Scissors
- ★ Fine sandpaper
- ★ Carpenter's glue
- ★ Plastic cement
- ★ Hobby knife
- ★ Masking tape

TO LAUNCH

- ★ Estes engines
- ★ Recovery Wadding
- ★ Starters
- ★ 4 AA batteries

Tools and construction and finishing supplies not included





Image 5.1: A collection of rocket parts, including body tubes, nose cones, fins, and recovery systems, ready for assembly.

6. LAUNCH SYSTEM SETUP

The launch system consists of the Porta-Pad II Launch Pad and the Electron Beam Controller.

6.1. Porta-Pad II Launch Pad

1. **Assemble Legs:** Attach the three legs to the central hub of the launch pad.
2. **Insert Launch Rod:** Slide the launch rod through the guide tube on the launch pad. Ensure it is securely seated.
3. **Blast Deflector:** Position the blast deflector plate at the base of the launch rod.
4. **Placement:** Place the assembled launch pad on a flat, stable surface in your chosen launch area.

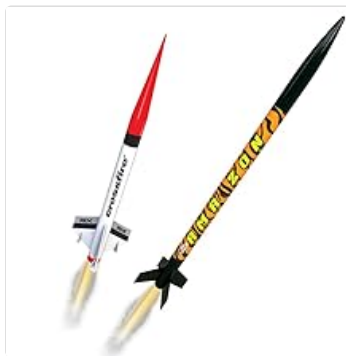


Image 6.1: The Estes Porta-Pad II Launch Pad, ready for rocket placement.

6.2. Electron Beam Controller

1. **Battery Installation:** Open the battery compartment and insert 4 new 1.5-volt AA alkaline batteries, observing correct polarity. Close the compartment.
2. **Connect Leads:** Connect the controller's leads to the launch pad. The red clip attaches to the launch rod, and the black clip attaches to the igniter leads.
3. **Safety Key:** Keep the safety key removed until immediately before launch.



Image 6.2: The Estes Electron Beam Launch Controller, used for safe remote ignition.

7. OPERATING INSTRUCTIONS (LAUNCHING)

Once your rocket is assembled and the launch system is set up, follow these steps for a safe launch:

1. **Prepare Rocket:** Insert the chosen Estes engine into the rocket's engine mount. Secure the igniter into the engine nozzle.
2. **Insert Wadding:** Gently insert recovery wadding into the body tube above the engine to protect the parachute.
3. **Pack Parachute:** Carefully fold and pack the parachute into the body tube.
4. **Place Rocket on Pad:** Slide the rocket onto the launch rod, ensuring it rests on the blast deflector.
5. **Connect Igniter:** Attach the micro-clips from the Electron Beam Controller to the igniter leads. Ensure the clips do not touch each other or the metal engine casing.
6. **Move to Safety:** Retreat to a safe distance (at least 15 feet) from the launch pad.
7. **Insert Safety Key:** Insert the safety key into the Electron Beam Controller.
8. **Countdown:** Announce a clear countdown (e.g., "5, 4, 3, 2, 1, Launch!").
9. **Launch:** Press and hold the launch button until the rocket ignites and lifts off.
10. **Recovery:** Observe the rocket's flight and parachute deployment. Recover the rocket after it lands.

8. ENGINE SELECTION

Proper engine selection is crucial for optimal flight performance and safety. Refer to the table below for recommended engines for each rocket model.

Rocket Model	Recommended Engines (First Flight)	Other Compatible Engines	Projected Max Altitude
Amazon	B4-2 (for first flight)	B4-4, B6-2, B6-4, C6-3, C6-5	600 ft (183 m) with C6-5
Crossfire ISX	A8-3 (for first flight)	B4-4, B6-4, C6-5, C6-7	1,150 ft (351 m) with C6-7

Note: All Estes rocket engines are sold separately. The engine designation (e.g., C6-5) indicates thrust class, average thrust, and delay time before ejection charge.



Image 8.1: A summary of technical specifications, including engine recommendations and projected altitudes for both rockets.

9. FLIGHT SEQUENCE

Understanding the typical flight sequence of a model rocket helps in anticipating its behavior and ensuring safe recovery.

1. **Ignition & Thrust:** The engine ignites, providing thrust that propels the rocket upwards.
2. **Powered Flight:** The rocket accelerates rapidly, guided by the launch rod.
3. **Engine Burnout:** The engine's propellant is consumed, and thrust ceases.
4. **Coast Phase:** The rocket continues to ascend due to momentum, slowing down until it reaches its apogee (highest point).
5. **Ejection Charge:** A small charge in the engine ignites, ejecting the nose cone and deploying the recovery parachute.
6. **Recovery:** The parachute slows the rocket's descent, allowing it to land safely for reuse.



FLIGHT SEQUENCE

- ★ Safety first! Don't forget to perform a pre-launch check.
- ★ Prepare for takeoff in a large open area free of dry weeds or brown grass.
- ★ Always follow the National Association of Rocketry (NAR) safety code.

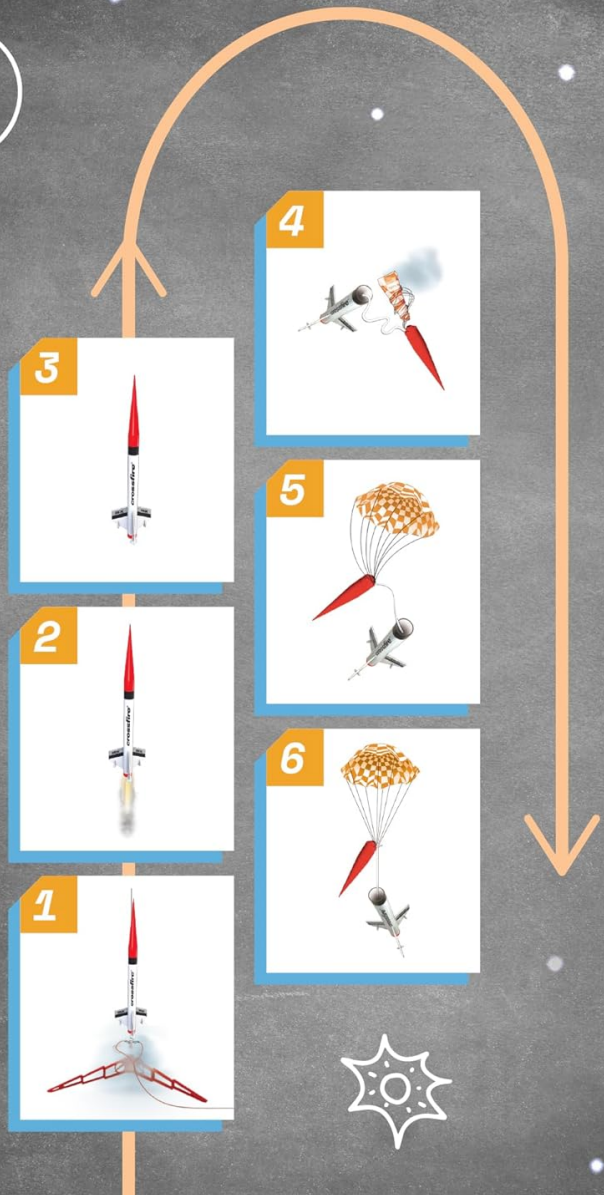


Image 9.1: A visual guide to the standard flight sequence of a model rocket, from launch to recovery.

10. MAINTENANCE

Proper maintenance ensures the longevity and continued performance of your model rockets and launch system.

- **Cleaning:** After each launch, inspect rockets for any residue or damage. Clean the engine mount area.
- **Parachute Inspection:** Check parachutes for tears or tangles. Repair or replace as needed.
- **Shock Cord:** Inspect the shock cord for fraying or damage. Replace if compromised.
- **Launch Pad:** Keep the launch rod clean and free of debris. Ensure all launch pad components are secure.
- **Controller:** Remove batteries from the Electron Beam Controller when not in use to prevent corrosion. Store in a dry place.
- **Storage:** Store rockets in a cool, dry place away from direct sunlight and extreme temperatures.

11. TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Rocket Fails to Launch:**
 - Check battery charge in the controller.
 - Ensure igniter is properly seated in the engine and micro-clips are securely attached.
 - Verify safety key is fully inserted.
 - Inspect igniter for damage; replace if necessary.
- **Erratic Flight Path:**
 - Check fins for damage or improper alignment.
 - Ensure launch rod is straight and rocket slides freely.
 - Verify correct engine is used for the rocket model.
 - Avoid launching in windy conditions.
- **Parachute Fails to Deploy:**
 - Ensure recovery wadding was used and properly packed.
 - Check for obstructions in the body tube.
 - Verify engine's ejection charge delay is appropriate for the rocket's altitude.
- **Rocket Lands Hard/Damaged:**
 - Parachute may not have deployed or was too small.
 - Landing area may have been unsuitable (e.g., hard surface).

12. SPECIFICATIONS

Detailed specifications for the Amazon and Crossfire ISX model rockets:

Feature	Amazon Rocket	Crossfire ISX Rocket
Length	30 inches (74.7 cm)	15.6 inches (39.6 cm)
Diameter	1.33 inches (34 mm)	0.98 inches (25 mm)
Weight	3 oz. (85 g)	1.3 oz. (37 g)
Skill Level	E2X (Easy to Assemble)	Skill Level 1
Fin Material	Molded Plastic	Laser-cut Balsa Wood
Recovery System	18 inch (45.7 cm) Parachute	12 inch (30 cm) Parachute
Projected Max Altitude	600+ ft (183 m)	1,150 ft (351 m)

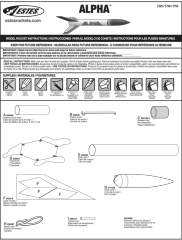
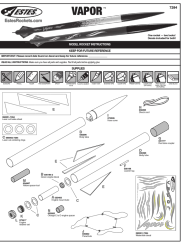
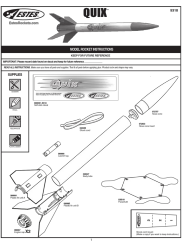
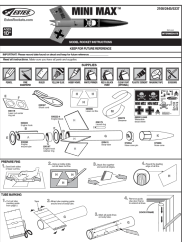
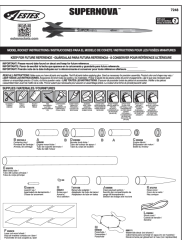
13. SUPPORT AND CONTACT

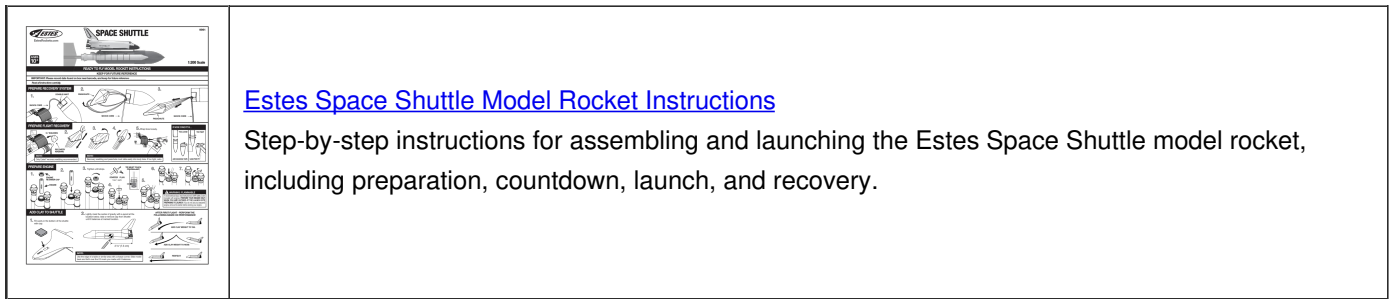
For further assistance, questions, or to purchase additional components, please visit the official Estes website or contact their customer support.

Estes Industries

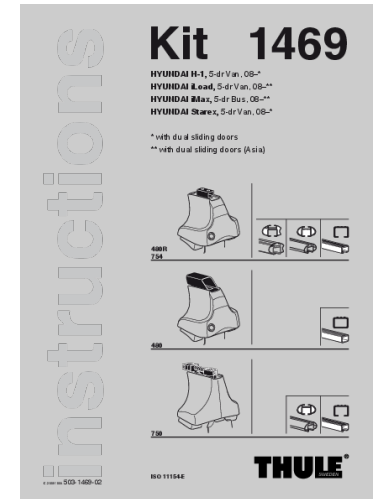
Website: www.estesrockets.com

Related Documents - 1469

	Estes Alpha Model Rocket Instructions - Assembly and Launch Guide Comprehensive assembly and launch instructions for the Estes Alpha model rocket (Models 1225, 1756, 1753). Includes parts list, step-by-step building guide, finishing tips, recovery system preparation, engine setup, launch procedure, and safety precautions.
	Estes Vapor Model Rocket Kit Assembly and Launch Instructions Comprehensive instructions for assembling, finishing, and launching the Estes Vapor model rocket kit (Model 7294), including parts list, step-by-step assembly, painting guides, and safety precautions.
	Estes Quix Model Rocket Instructions Step-by-step assembly and launch instructions for the Estes Quix model rocket. Includes parts list, assembly diagrams, and safety precautions.
	Estes Mini Max Model Rocket Instructions: Assembly and Launch Guide Comprehensive instructions for assembling and launching the Estes Mini Max model rocket. Includes parts list, step-by-step assembly, finishing tips, and safety precautions.
	Estes Super Nova Model Rocket Assembly Instructions Detailed instructions for assembling the Estes Super Nova model rocket, including parts lists, step-by-step guides, and safety precautions.



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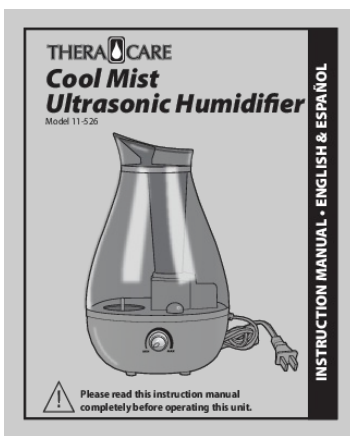
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Comprehensive user manual for the TheraCare Cool Mist Ultrasonic Humidifier (Model 11-526), covering setup, operation, cleaning, maintenance, troubleshooting, specifications, and warranty information.

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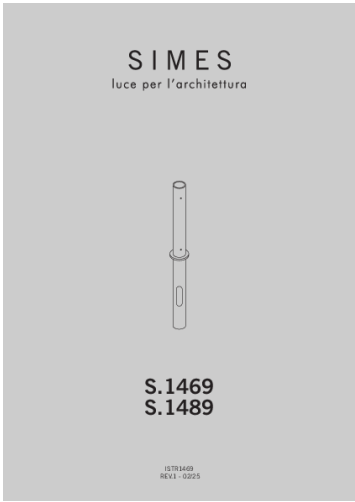
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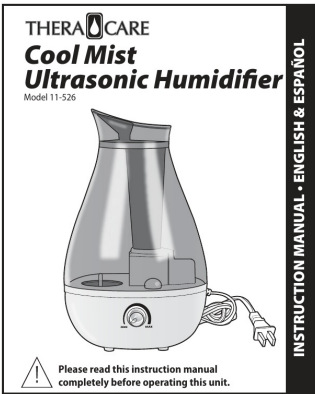
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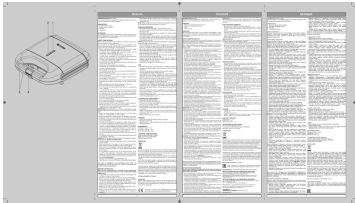
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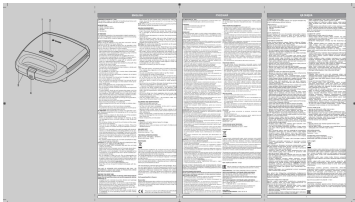
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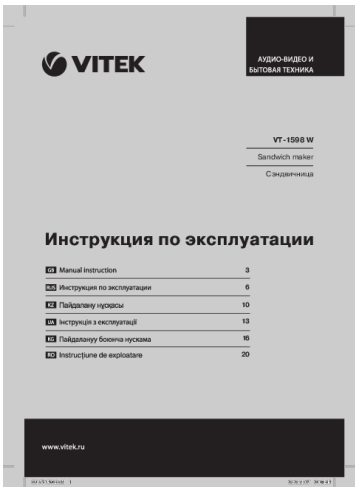
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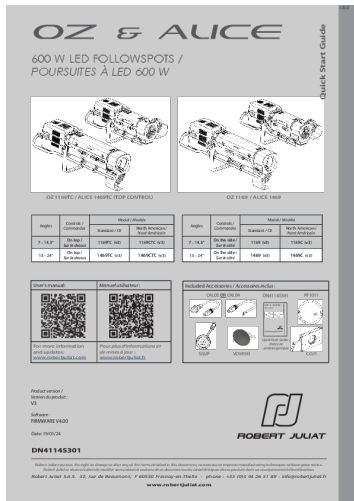
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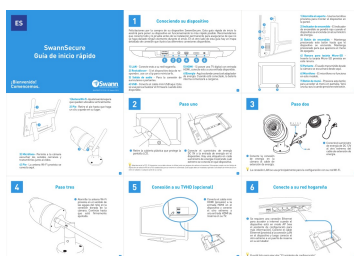
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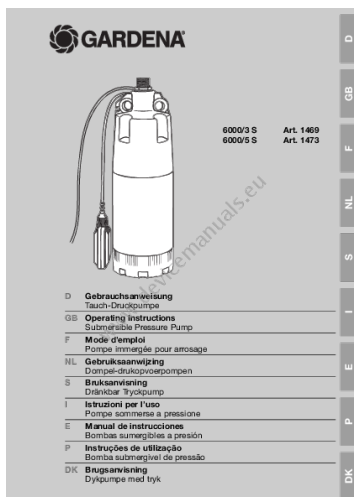
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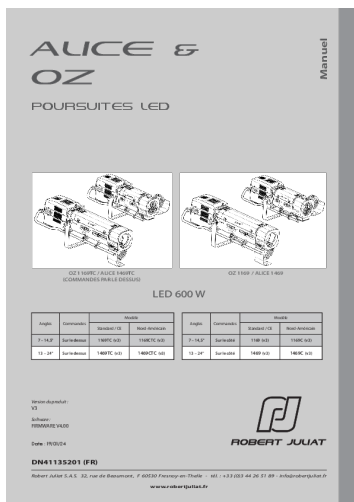
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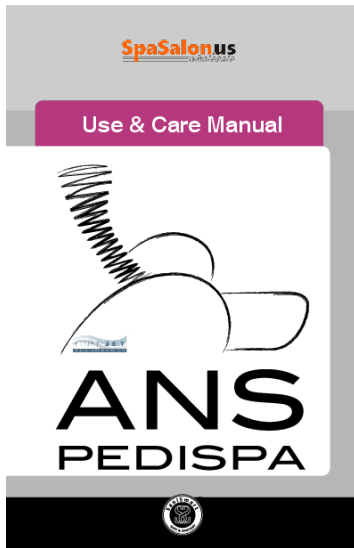
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Use Care Manual safety IMPORTANT SAFETY INSTRUCTIONS. Read all instructions before using this pedicure. Please keep this manual in a safe place. DANGER: Risk of Electric Shock. Connect only to a circuit protected by a ground fault circuit interrupter Grounding is required. The unit should be in...

lang:en score:20 filesize: 3.44 M page_count: 36 document date: 2012-04-20



[\[pdf\]](#) Instructions Parts List Warranty

Assembly Instructions 4 Tier Shoe Shelf White SHO 05269 ISB 140902 1469 cdn shopify s files 1 2078 6445 |||

SHF-05269 4-tier storage shelf repisas para almacenamiento de 4 niveles tagre de rangement 4 niveaux 25.75 in L x 11.63 in W x 27.88 in H 65.4 cm L x 29.5 cm W x 70.8 cm H WWW.HONEYCANDO.COM SALES HONEYCANDO.COM 877.2.I.CAN.DO 877.242.2636 PARTS LIST PART/ILLUSTRATION A QTY DESCRIPTION 2...

lang:en score:20 filesize: 153.17 K page_count: 4 document date: 2014-09-02



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Full Range Speaker Manual Nancy rfp fullrange man rockfordfosgate 80 library manuals

FULL RANGE SPEAKERS RFP-1403/1403D RFP-1404/1404D RFP-1405/1405D RFP-1406 RFP-1441 RFP-1446 RFP-1457 RFP-1469 c a r a u d i o f o r f a n a t i c s punch INSTALLATION OPERATION Dear Customer, Congratulations on your purchase of the world s finest brand of car audio speakers. At Rockford Fos...

lang:en score:20 filesize: 711.21 K page_count: 20 document date: 1998-04-27

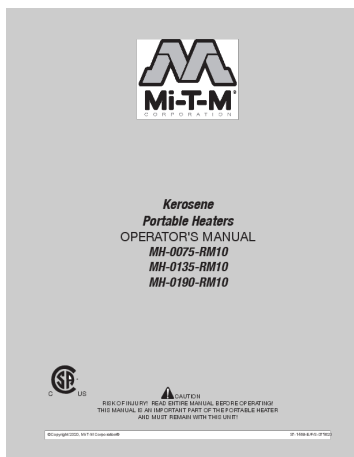


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MANUALE BSF HP lamborghini calor it media |||

Cod. 3540000190 - Rev. 07 - 06/2023 BSF HP 1C / 2C IT ISTRUZIONI PER USO, INSTALLAZIONE E MANUTENZ ... o BSF HP 200-2C BSF HP 300-2C BSF HP 400-2C BSF HP 500-2C A B mm mm 540 1438 620 1557 750 **1469** 750 1769 A B mm mm 540 1438 620 1557 750 **1469** 750 1769 12 IT Cod. 3540000190 - ...

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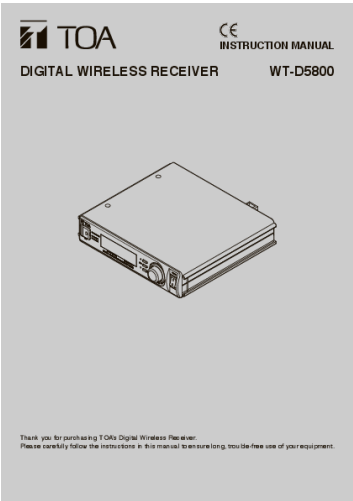
Kerosene Forced Air Simple Operation Portable Heaters Product Manuals for Commercial Cleaning

Equipment Support Mi T M MH 0075 0135 0190 RM10 37 1469 071620 mitm manuals heaters |||

Kerosene Portable Heaters OPERATOR S MANUAL MH-0075-RM10 MH-0135-RM10 MH-0190-RM10 C US CAUTION ... R AND MUST REMAIN WITH THIS UNIT KeCroopsyernigehPto2r0ta2b0l,eMHi-eTa-tMersCMorapnouratlon 37-**1469**-E/F/S-071620 TABLE OF CONTENTS INTRODUCTION.....

lang:i-klngon score:19 filesize: 1.69 M page_count: 56 document date: 2020-09-28



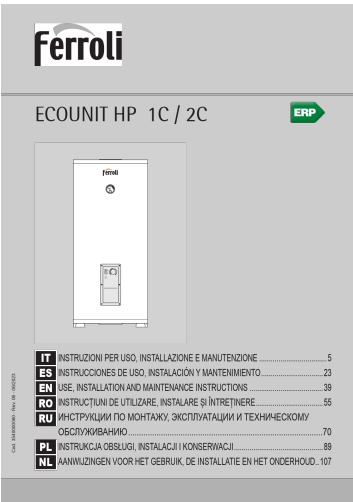


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WT D5800 DIGITAL WIRELESS RECEIVER 1469 d5000 manual toaelectronics document |||

INSTRUCTION MANUAL DIGITAL WIRELESS RECEIVER WT-D5800 Thank you for purchasing TOA s Digital Wireless Receiver. Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment. TABLE OF CONTENTS 1. SAFETY PRECAUTIONS

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ecount hp 1c manual instalacion ferroli media |||

ECOUNT HP 1C / 2C IT ISTRUZIONI PER USO, INSTALLAZIONE E MANUTENZIONE..... -2C ECOUNT HP 300-2C ECOUNT HP 400-2C ECOUNT HP 500-2C A B mm mm 540 1438 620 1557 750 **1469** 750 1769 A B mm mm 540 1438 620 1557 750 **1469** 750 1769 12 IT Cod. 3540000060 -...

lang:it score:18 filesize: 12.73 M page_count: 124 document date: 2023-07-19



[SAKAI RS75 Parts Manual](#)

This document is a comprehensive parts manual for the SAKAI RS75 compactor, detailing all components, assemblies, and part numbers required for maintenance and replacement. It includes exploded diagrams and part lists for various assemblies such as the frame, housing, cylinder, shoe, tank, lever, and carriers.

lang:es score:18 filesize: 4.65 M page_count: 32 document date: 2025-08-13



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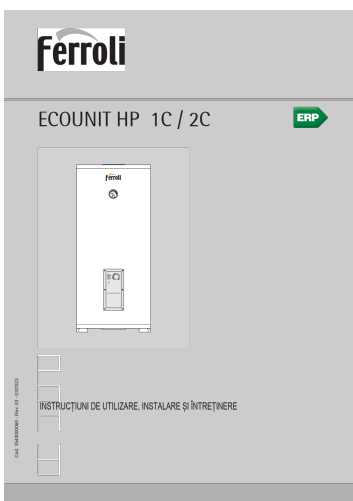
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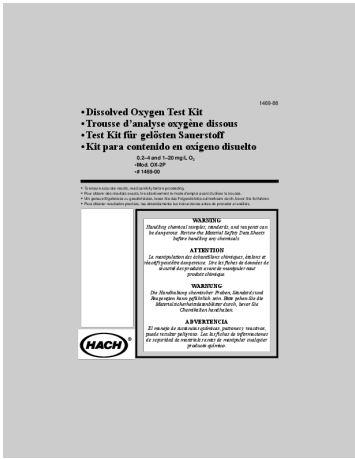
lang:en **score:18** filesize: 8.36 M page_count: 68 document date: 2018-08-28



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Manual de utilizare ECOUNT HP 1684748801FERROLI HP1684748801ferrol media 1684748801 |||
ECOUNT HP 1C / 2C INSTRUCIUNI DE UTILIZARE, INSTALARE I NTREINERE
Cod. 3540000060 - Rev. 03 - 03/2 ... -2C ECOUNT HP 300-2C ECOUNT HP 400-2C
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Dissolved Oxygen Test Kit **1469-88** Trousse d analyse oxygne dissous Test Kit fr gelsten Sauerstoff Kit para contenido en oxgeno disuelto 0.24 and 120 mg/L O2 Mod. OX-2P # **1469-00** To ensure accurate results, read carefully before proceeding. Pour obtenir des rsultats exacts, lire attentive...

lang:en **score:18** filesize: 1.08 M page_count: 20 document date: 2001-02-26

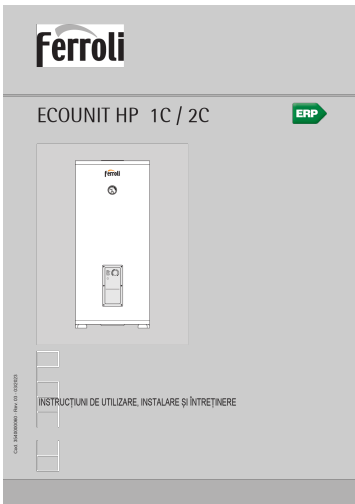


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lang:it **score:18** filesize: 3.53 M page_count: 17 document date: 2023-05-22



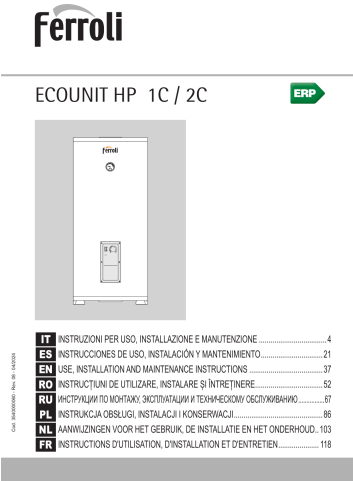
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Radiant Plus MV Small Insert Le manuel du propritaire AVERTISSEMENT: RISQUE D INCENDIE OU D EXPLOSION ... 2016, T.I. 12521 Harbour Reach Dr., Mukilteo, WA 98275 10.00 4/8/21 www.travisproducts.com 100-01469-FR 2 Introduction

Introduction Nous vous souhaitons la bienvenue en tant que nouveau propri... lang:fr score:18 filesize: 9.37 M page_count: 51 document date: 2021-04-08



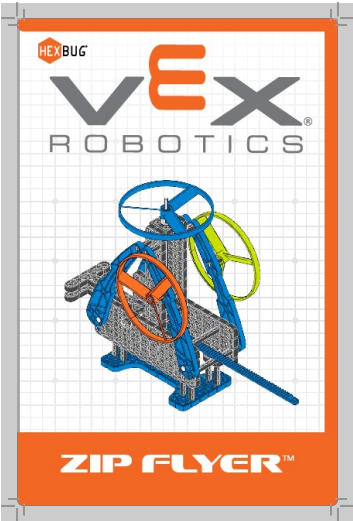
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2C ECOUNIT HP 500-2C A B mm mm 540 1438 620 1557 750 1469 750 1769 A B mm mm 540 1438 620 1557 750 1469 750 1769 Cod. 3540000060 - Rev. 08...

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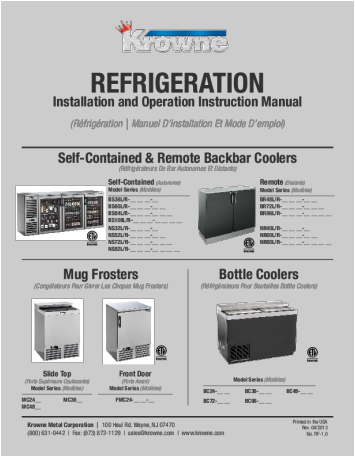
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lang:i-klngon score:17 filesize: 6.87 M page_count: 40 document date: 2019-05-12

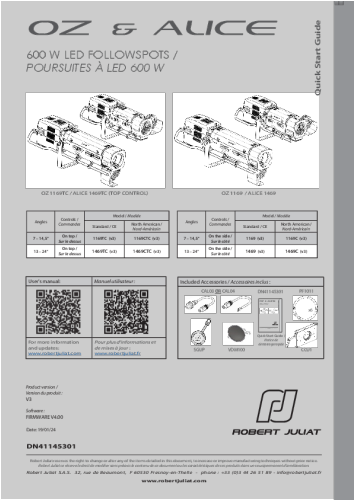


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owner s manual 221104o0qpw cdn ckitchen img product 27 2795f190 c074 41c5 bc4f 8f78e006e7e4 |||

REFRIGERATION Installation and Operation Instruction Manual Rfrigration Manuel D installation Et ... te avec verrou BC-625 BC-626 2012 N/A 2010 1441 1441 1412 BC-515 BC-516 BC-514 BC-608 2042 BC-510 **1469** N/A 2022 BC-630 BC-619 BC-710 Sliding Door without Lock Porte coulissante sans verrou BC-71...

lang:en **score:17** filesize: 1.48 M page_count: 21 document date: 2013-04-11



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600 W LED FOLLOWSPOTS POURSUITES ÀDN41145301 qs OZ ALICE v3goknight content

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tQCfrdjRjwK1MR4HwordmucLgkBWYv1ggoknight ÀRobert Juliat Oz 600W Cool White 7° 14 5°

Followspot GoKnightDN41145301 TNKuiJr8BrBn5DFB6KGeeg4JI1gmb6AKevK3xgoknight À WRobert

AfmBOopdi2ffNjE CvIQQWHxGYrWD6tr8pMxGruADgTIMQDiC 9CcF98goknight ||| ||| Quick Start Guide

600 W LED FOLLOWSPOTS / POURSUITES LED 600 W OZ 1169TC / ALICE 1469TC TOP CONTROL

Angles 7 14,5 13 24 Controls / Commandes On top / Sur le dessus On top / Sur le dessus Model / Modle

Standard / CE North American / Nord-Amr ||| Quick Start Guide 600 W LED FOLLOWSPOTS /

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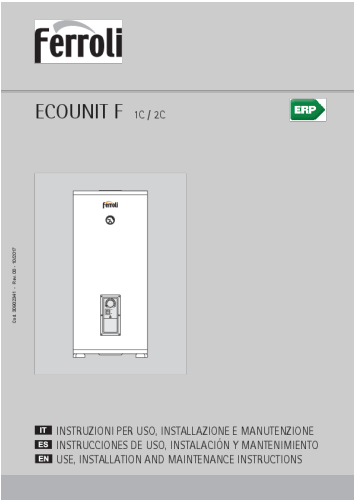
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1169TC / ALICE **1469**TC TOP CONTROL Angles 7 14,5 13 24 Controls /

Commandes On top / Sur le dessus On top / Sur le dessus Model / Modle Standard /

CE North American / Nord-Amricain 1169TC v3 1169CTC v3 **1469**TC v3 1...

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F 300-1C 620 1535 ECOUNT F 400-1C 750 **1469** ECOUNT F 500-1C 750 1769

Modello A B mm mm LO HI OFF ECOUNT F 200-2C 540 1453 ON ...

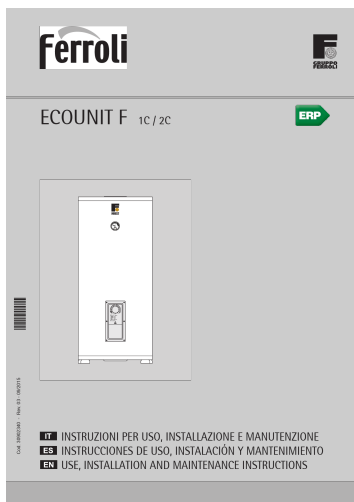
lang:es **score:17** filesize: 5.24 M page_count: 32 document date: 2017-10-31



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lang:hr **score:17** filesize: 4.02 M page_count: 38 document date: 2025-01-29

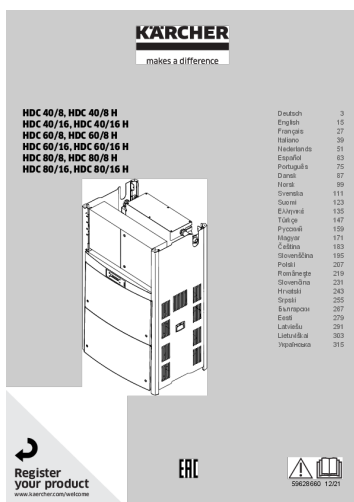


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lang:de **score:16** filesize: 49.83 M page_count: 328 document date: 2022-01-26