

Optimate TM-500

Optimate TM-500 DC to DC Battery Charger & Maintainer User Manual

INTRODUCTION

The Optimate TM-500 is a 6-step DC to DC battery saving charger and maintainer designed for 12V lead-acid and 12.8V-13.2V LFP (LiFePO4) batteries. This device allows you to charge and maintain a secondary battery using a primary 12V battery as a power source, eliminating the need for AC power. It is ideal for recharging batteries in vehicles like motorcycles, ATVs, or boats while in transit or in remote locations.

IMPORTANT SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always follow safety guidelines when handling batteries and electrical equipment.

- Ensure proper ventilation when charging lead-acid batteries.
- Avoid short-circuiting the battery terminals or charger connections.
- Do not expose the charger to rain or excessive moisture.
- Always connect the charger's output to the target battery before connecting the charger's input to the source battery.
- Disconnect the source battery connection before disconnecting the charger from the target battery.
- The charger is designed for 12V lead-acid and 12.8V-13.2V LFP batteries only. Do not use with other battery types.

PACKAGE CONTENTS

- Optimate TM-500 Battery Charger
- Battery Lead (with eyelets)
- Battery Clips (alligator clamps)



The Optimate TM-500 charger shown with its standard accessories, including battery clips and permanent eyelet connectors.

KEY FEATURES

- **Off-Grid Charging:** Charges 12V lead-acid (AGM, GEL, STD) and 12.8V-13.2V LFP (LiFePO4) batteries from another 12V battery source.
- **Lithium Friendly:** Safe for use with Lithium (LiFePO4) batteries.
- **Battery Saving:** Capable of recovering deeply discharged, sulfated 12V batteries from as low as 2 Volts.
- **Fully Automatic Operation:** Connect and forget functionality with continuous charging for healthy batteries and fault detection.
- **Intelligent BMS Wake-up Mode:** Safely reactivates batteries with integrated Battery Management Systems (BMS) from sleep mode.
- **Safe Operation:** Features spark suppression, protection against overcharging, short-circuit, and incorrect battery connection.

SETUP INSTRUCTIONS

Follow these steps to set up your Optimate TM-500 charger:

1. Identify the source 12V battery (e.g., vehicle battery, external 12V battery) and the target battery to be charged.
2. Ensure both batteries are in a well-ventilated area.
3. Connect the charger's output cables (with clips or eyelets) to the terminals of the target battery. Ensure

correct polarity (red to positive, black to negative).

4. Connect the charger's input cables to the terminals of the source 12V battery. Ensure correct polarity.
5. The charger will automatically begin its diagnostic and charging process.





Illustration of the Optimate TM-500 connected to a battery, demonstrating proper connection points.

OPERATING THE OPTIMATE TM-500 (6-STEP PROGRAM)

The Optimate TM-500 employs a sophisticated 6-step charging program to optimize battery health and performance:

1. **Step 1: Low Volt Start (2V BMS Reset)**- Initiates charging for deeply discharged batteries, including those with BMS protection.
2. **Step 2: Pulse SAVE** - Recovers sulfated batteries with high-voltage pulses.
3. **Step 3: Controlled CHARGE** - Delivers a controlled current to bring the battery to full charge.
4. **Step 4: OPTIMIZE** - Balances cell voltage and ensures optimal charge for maximum battery life.
5. **Step 5: TEST after CHARGE** - Performs a battery health test to identify potential issues.
6. **Step 6: OptiMATE 365 Maintenance** - Enters a long-term maintenance mode, delivering charge only when needed to prevent overcharging and prolong battery life. This mode also protects the source battery by drawing minimal power.

The charger's LEDs will indicate the current charging stage and battery status.



The Optimate TM-500 unit displaying its various LED indicators for charging status and battery health.

MAINTENANCE GUIDELINES

The Optimate TM-500 is designed for long-term battery maintenance. Once the 6-step program is complete, it automatically enters the OptiMATE 365 maintenance mode. In this mode, the charger will monitor the battery and deliver small charges as necessary to keep it at optimal voltage without overcharging. This prolongs battery life and ensures readiness.

Periodically check the connections for cleanliness and security. Keep the charger clean and dry.

TROUBLESHOOTING

- **Charger not activating:** Ensure both the target battery and source battery connections are secure and have correct polarity. Check the source battery for sufficient voltage (above 10V).
- **No status lights:** Verify the source battery is connected and providing power. Check for any blown fuses in

Battery not charging: The target battery might be severely damaged or have an internal fault. The charger may indicate a fault or not proceed past the 'SAVE' step. Consider having the battery professionally tested.

Source battery draining too quickly: While the OptiMATE maintenance mode is efficient, ensure your source battery has adequate capacity for the duration of charging and maintenance. For prolonged maintenance, a larger capacity source battery is recommended.

Automatic shut-down: The charger will automatically shut down if a short-circuit is detected or if the battery is disconnected during operation. Recheck connections and restart the process.

Manufacturer	OptiMate
Model	TM-500
Input Voltage	12-16V DC (from source battery)
Output Voltage	12V / 12.8V-13.2V (for target battery)
Output Current	2A
Battery Types Supported	12V Lead-Acid (AGM, GEL, STD), 12.8V-13.2V LFP (LiFePO4)
Item Weight	1.32 pounds (600 Grams)
Product Dimensions	6.57 x 1.81 x 2.56 inches
Safety Features	No risk of overcharging, spark suppressed, automatic shut-down for short-circuit/disconnection.
Certifications	CE, FCC, RoHS, UL

The Optimate TM-500 comes with a 3-year limited replacement warranty. For technical support, warranty claims, or further assistance, please contact Optimate customer service or refer to the official Optimate website.

Related Documents - TM-500

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	OptiMate 4 Quad Program Battery Charger User Manual Comprehensive guide to the OptiMate 4 Quad Program automatic battery charger, covering its features, operation, safety instructions, and troubleshooting for 12V lead-acid and 12.8V LiFePO4 batteries.
	OptiMate 4 Quad Program Battery Charger User Manual Comprehensive guide to the OptiMate 4 Quad Program battery charger, covering features, operation, safety instructions, and troubleshooting for 12V lead-acid and LiFePO4 batteries. Learn how to safely charge and maintain your vehicle batteries.
	OptiMATE Lithium LFP Select Battery Charger Manual (TM270/TM271/TM272) Comprehensive safety and operating instructions for the OptiMATE Lithium LFP Select battery charger (models TM270, TM271, TM272), designed for 12.8V and 16V LiFePO4 batteries. Includes charging steps, safety warnings, and warranty information from TecMate International.
	OptiMate 6 Ampmatic: Inteligentna Ładowarka Akumulatorów 12V Przewodnik po ładowarce OptiMate 6 Ampmatic firmy TecMate/Micronix. Dowiedz się o funkcjach, bezpieczeństwie, programach ładowania i konserwacji akumulatorów 12V.
	OptiMate Lithium Battery Charger: User Manual, Safety, and Operation Guide Detailed user manual for OptiMate Lithium battery chargers (TM470-TM488) covering safety instructions, connection, charging steps, LED indicators, BMS reset, ECO mode, and warranty. Supports LiFePO4 batteries.



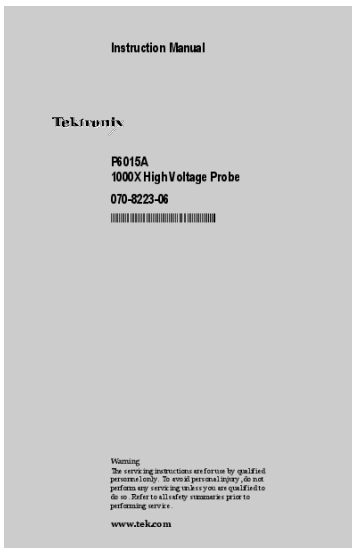
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Provided by ManualsAndMore Download User Manual Greenlee TM 500 Instruction TM500

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Description The **TM-500** Tele-Mate Telephone Test Set is intended to troubleshoot analog telecommunication circuits. Its features include: DSL compatibility Tone or Pulse dialing Mute function Luminescent keypad Storage of up to 10 telephone numbers LNR Last Number Redial Impact resistant Saf...

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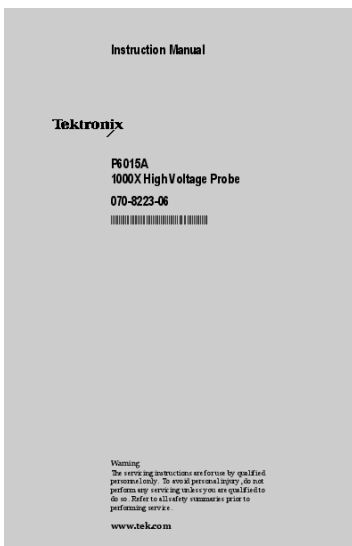
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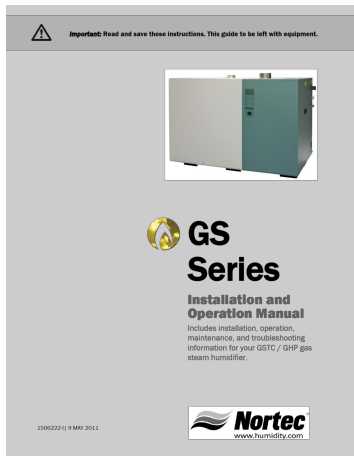
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tm 500 manual Battery Mart DC Cycle Gear 3 THIS PORTION OF THE MANUAL CONTAINS

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Automatic charger for lead acid 12 8V LiFePO4 batteries Chargeur automatique pour plomb acide

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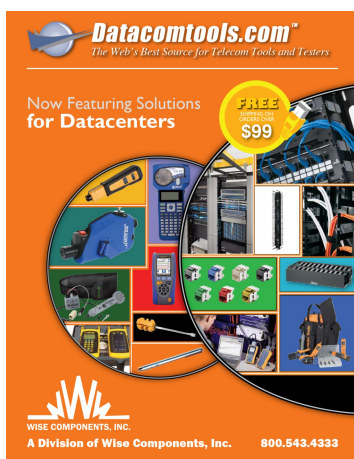
DC DC MODEL: TM500 v2 2017 INPUT DC: 12V-16VDC 2.7A max. OUTPUT DC: 2A

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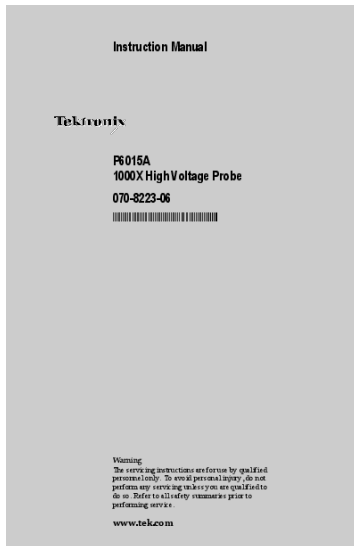
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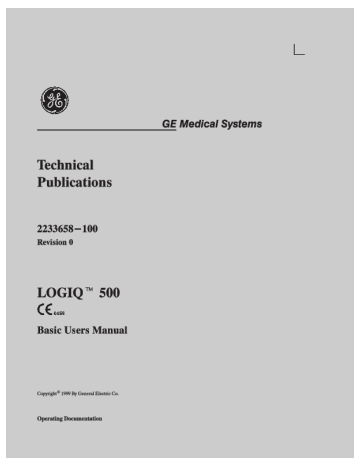


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P6015A 1000X High Voltage Probe Instruction Manual 13 Tektronix Inc Jun 2024 — To Avoid Fire or Personal Injury Connect and Disconnect Properly Do not connect disconnect probes test leads while they are connected to a voltage Instructions 070822306 revA tek manual |||

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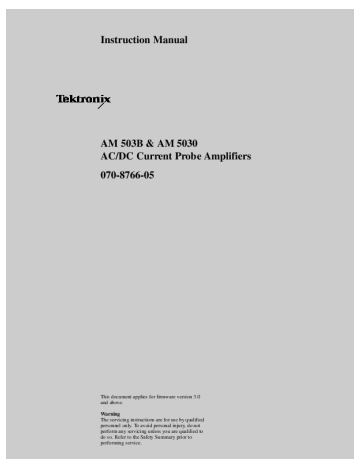


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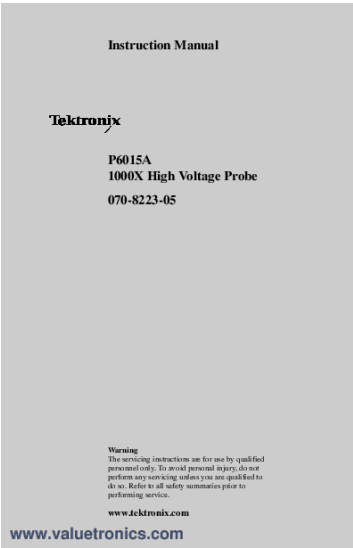


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Instruction Manual Tektronix AM 503B 5030 AC DC Current Probe Amplifiers 070 8766 05 This document applies for firmware version 3 0 and above Warning The servicing instructions are use by qualified Related Manuals Conventions Getting Started Customer Support supports the operation basic maintenance of 070876605 AM503 AM5003 tek manual bee mif pg gda pl ciasteczkowypotwor Tek w140 tekwiki images 1 1c xdevs doc 5892336 archive org manualzilla id |||

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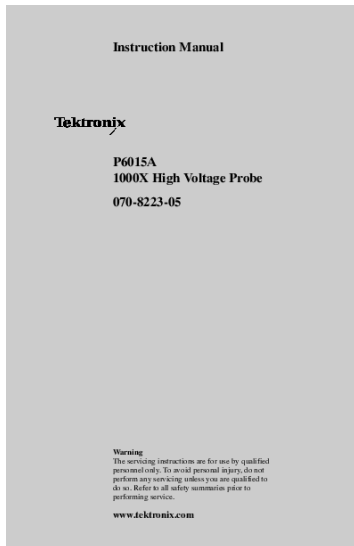
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DC DC MODEL: TM500 INPUT DC: 12V-16VDC 2.7A max. OUTPUT DC: 2A 12V DC

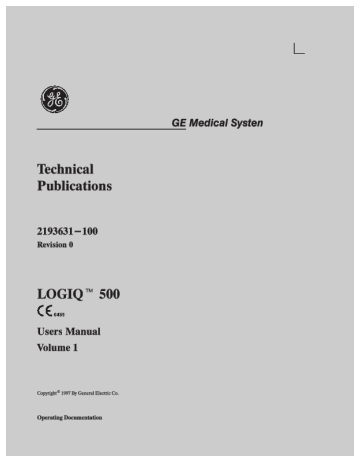
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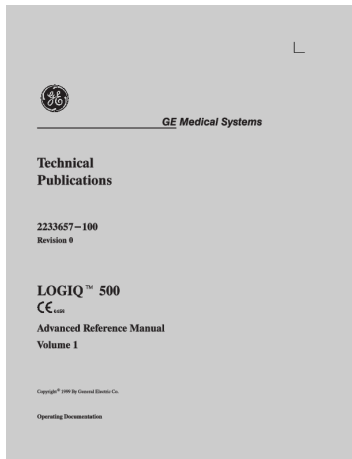
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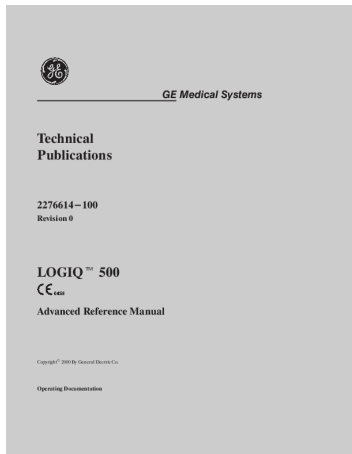
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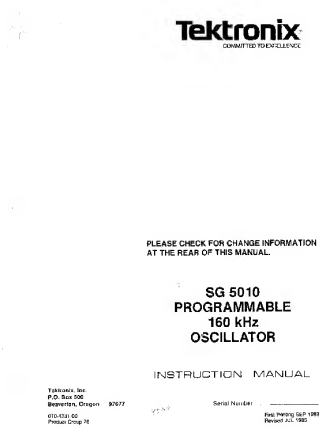
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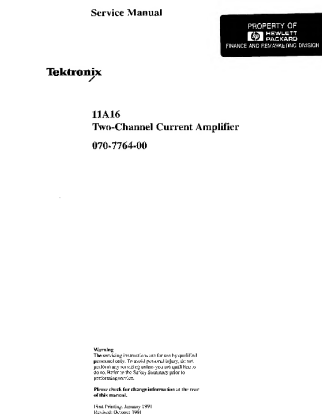


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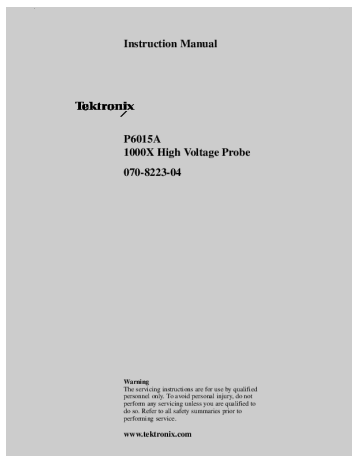
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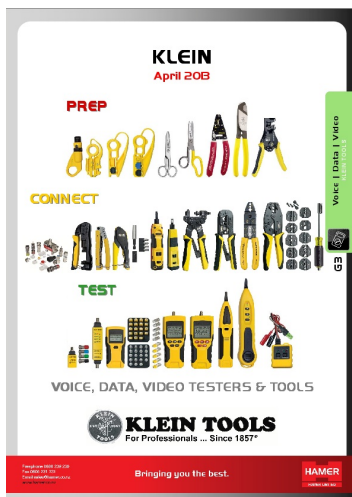


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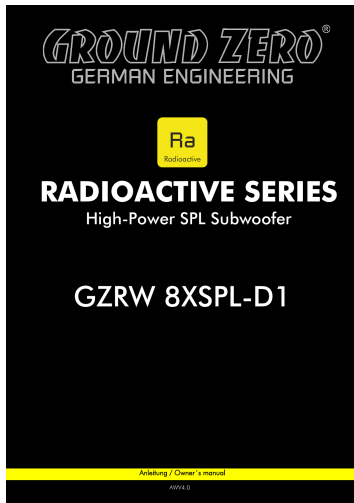
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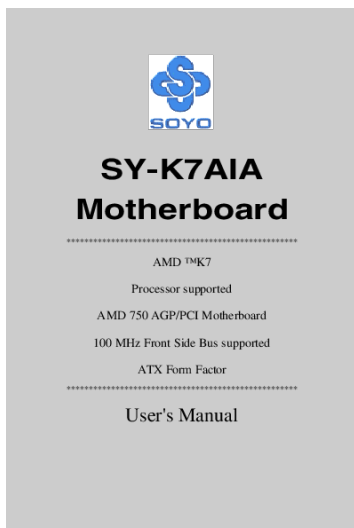
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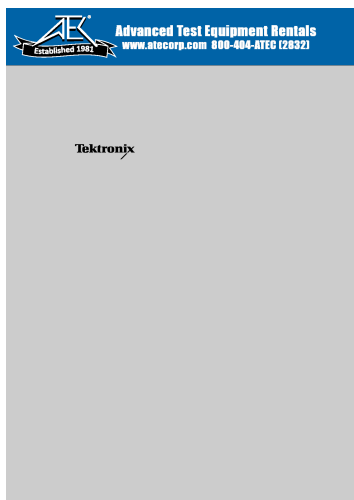
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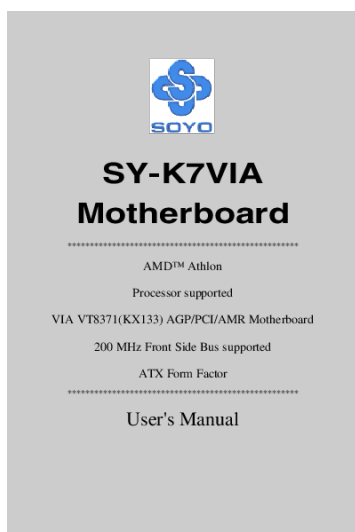


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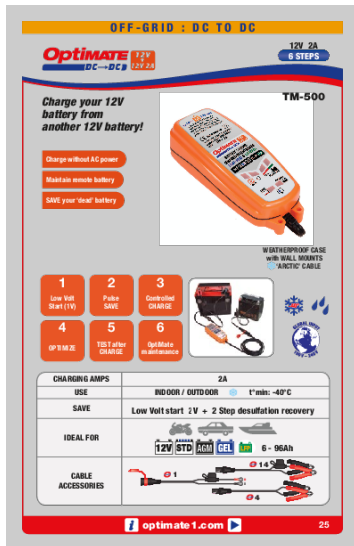
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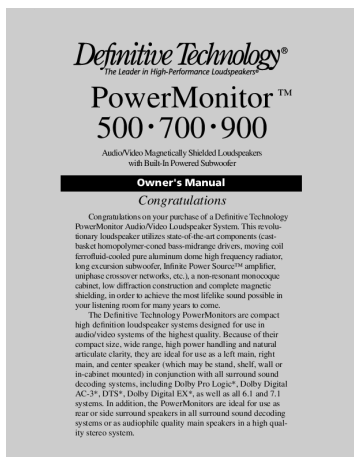
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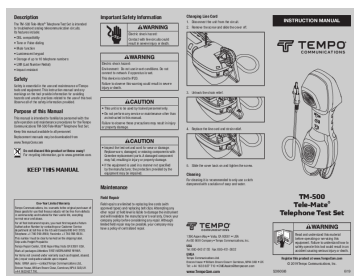
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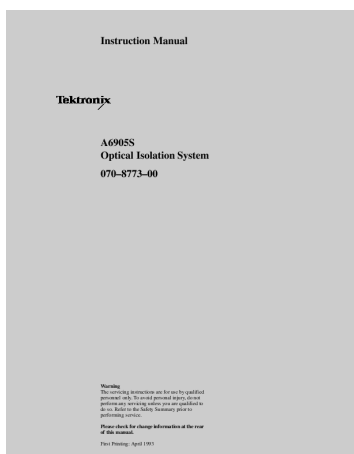
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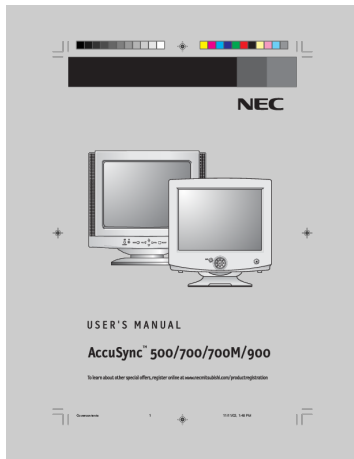
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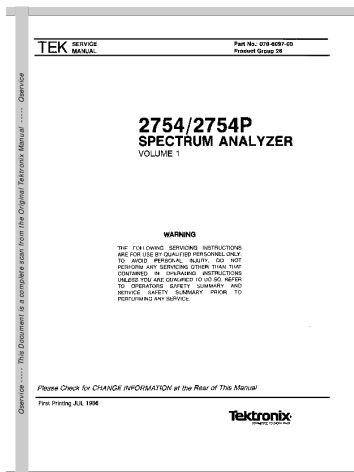


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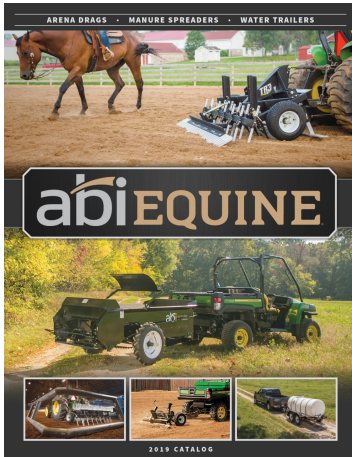
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