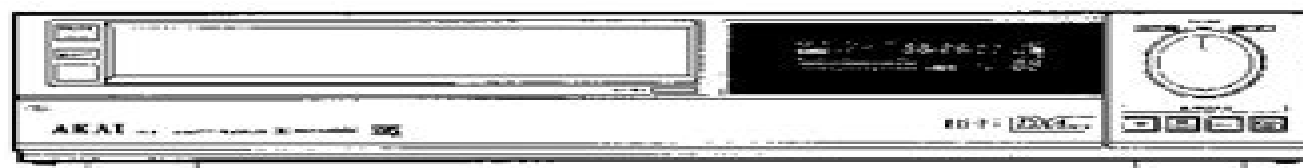


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VIDEO CASSETTE RECORDER

MODEL VS-A77EK

SPECIFICATIONS

Format	VHS standard (PAL)	Type speed	
Video recording system	Rotary, drum azimuth two-head helical scan system	SP mode	23.39 mm/sec.
Rotary heads	Four video heads & two audio heads	LP mode	11.695 mm/sec.
RF input	System 1 with monaural or multiplexed 2-channel audio (NICAM)	Quick index	
RF output	UHF ch 21 - 69 System 1 type modulation LBS ch 30 - 39 adjustable (preset ch 38)	SP mode	Approx. 7 times normal speed
Recording (line input)	PAL	LP mode	Approx. 3 times normal speed
Playback (line output)	PAL	FF, REW time	Approx. 5 min. with E-180 cassette
Video		Time	
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced	Program	8 programs/1 month and CLOCK TIMER
Line output level	1.0 Vp-p/75 ohms, unbalanced	Clock reference	Quartz crystal
S/N ratio	More than 45 dB	Display	TV screen & PL (Tape counter, Time etc.)
Horizontal resolution	More than 250 lines	Power Amplifier	
Audio	(VHS HiFi: 2ch, Linear: 1ch) -8 dBm/50 K ohms, unbalanced	Power output	8 watts per channel, min. RMS, 8 ohms, 90 - 20,000 Hz, THD 0.9%
Line input level	(-20 dBm at Recording level control max.)	Power requirement	200 - 240 V AC, 50 Hz
Line output level	-4 dBm/1 K ohms, unbalanced	Power consumption	46 W
Distortion rate	More than 90 dB (VHS HiFi)	Operating temperature	5°C - 40°C
Frequency response	20 - 20,000 Hz (VHS HiFi)	Dimensions	425(W) x 320(H) x 418 (D)
Wow & Flutter	Less than 0.005% WRMS (VHS HiFi)	Weight	7.5 kg
Recording/playback time	240 min. with E-240 cassette on SP mode 480 min. with E-240 cassette on LP mode	Standard accessories	
		Antenna cable	1
		Remote control unit	1
		Batteries for remote control	4
		Operator's manual	1
		Function sheet	1

* For improvement purposes, specifications and design are subject to change without notice.

Akai Vs A77ek Video Cassette Recorder Repair Manual

Richard C. Wilkins



Akai Vs A77ek Video Cassette Recorder Repair Manual:

Chilton's Guide to VCR Repair and Maintenance Gene B. Williams, Tommy Kay, 1985-09 *Akai 55EK Video Recorder Service Manual* Akai Denki Kabushiki Kaisha, *Troubleshooting and Repairing Audio and Video Cassette Players and Recorders* Homer L. Davidson, 1992-12-01 Few repair manuals have a larger audience than this money saving do it yourself guide It contains all the information necessary to prevent diagnose or fix typical problems with audio video cassette players recorders popular in today s high tech home Homer Davidson s coverage ranges from basic cleaning maintenance to performing repairs on everything from portable cassette players to state of the art digital audio tape players all with only a few simple test instruments hand tools A complete glossary list of manufacturer s addresses is included Practical VCR Repair David T. Ronan, 1994 This textbook bridges the gap between the sometimes overly simple VCR repair guides aimed at the average do it yourself and the highly technical manuals designed for use by experienced radio and TV bench technicians Complete coverage includes both the how s and why s of maintaining VHS VCRs as well as discussion of the practical aspects of interfacing with VCR repair customers Everything from reading schematics to use of test equipment to tips for protecting the VCR and the technician during servicing are included The reader friendly style supported by numerous photos and illustrations and a comprehensive glossary of acronyms and abbreviations makes this book ideal for use by today s electronics students *Service Manual* Panasonikku Kabushiki Kaisha, 198? **VCR Troubleshooting & Repair Guide** Robert C. Brenner, Gregory R. Capelo, 1987 *VCR Troubleshooting and Repair* Robert Brenner, Gregory Capelo, 1998-08-26 The labor costs of even a minor VCR repair are very high and warranties typically only cover the first 90 days of ownership The first four chapters of this practical guide allow do it yourselfers to take charge of maintaining and repairing their own VCRs for optimum performance Basic VCR and recording principles are explained so you can gain a better understanding of how your machine operates Advanced troubleshooting techniques covered in the later chapters allow technicians and advanced hobbyists to make more complex repairs and adjustments Basic troubleshooting guidelines and flow charts aid in diagnosis including chassis and mechanical failures VCR Troubleshooting Repair focuses on preventative maintenance Basic electronics principles are presented as they relate to VCR performance THE AUTHORS Gregory R Capelo is the owner of a VCR and VTR repair facility in El Cajon California He has serviced broadcast consumer and industrial video equipment for more than 14 years He has taught numerous technical courses to private government and industrial technicians on the theory and maintenance of video and television equipment Currently a trainer for Panasonic he has been an expert witness in VCR patent infringement cases Robert C Brenner is an engineer and lecturer with extensive experience in microcomputers and system repair He has written several successful books including earlier editions of VCR Troubleshooting and Repair Revised with technical input from major VCR manufacturers Step by step details to maximize performance How to avoid breakdowns **Your VCR** Brent Butterworth, 1992 VCR formats installation features maintenance troubleshooting

Home VCR Repair Illustrated Richard C. Wilkins, 1999 A guide to repairing videorecorders written for the do it yourselfer

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ship resistance and propulsion practical estimation of ship propulsive - Jan 28 2022

web sep 1 2011 abstract ship resistance and propulsion is dedicated to providing a comprehensive and modern scientific approach to evaluating ship resistance and propulsion this book written by experts in the

powering process chapter 13 ship resistance and propulsion - Jul 02 2022

web sep 7 2011 the selection of propulsion machinery and plant layout will depend on design features such as space weight and noise levels together with overall requirements including areas of operation running costs and maintenance all of these factors will depend on the ship type its function and operational patterns

resistance and propulsion characteristics of various commercial ships - Oct 05 2022

web may 1 2010 this paper uses computational tools to examine the speed performance of various types of commercial ships including resistance and propulsion characteristics eight commercial ships built in the last decade were selected for the study

ship resistance and propulsion cambridge university press - Feb 09 2023

web this second edition provides a comprehensive and scientific approach to evaluating ship resistance and propulsion written by experts in the field it includes the latest developments in cfd experimental techniques and guidance for the practical estimation of ship propulsive power

ship resistance and propulsion wikipedia - Jul 14 2023

web ship resistance is defined as the force required to tow the ship in calm water at a constant velocity components of resistance a body in water which is stationary with respect to water experiences only hydrostatic pressure hydrostatic pressure always acts to oppose the weight of the body

pdf resistance and propulsion of ships semantic - May 12 2023

web 1962 tldr the method utilizes a source density distribution on the surface of the body and solves for the distribution necessary to make the normal velocity zero on the boundary and the flow velocities at points both on and off the body surface are calculated 698