

MDS-JE510

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model



Photo: AEP model

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Model Name Using Similar Mechanism	MDS-JE500
MD Mechanism Type	MDM-3A/3B
Optical Pick-up Type	KMS-260AU1N

SPECIFICATIONS

System	MiniDisc digital audio system
Disc	MiniDisc
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$) Emission duration: continuous
Laser output	Less than $44.6 \mu\text{W}$ * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Laser diode properties	Material: GaAlAs
Revolutions (CLV)	400 rpm to 900 rpm
Error correction	Advanced Cross Interleave Reed Solomon Code (ACIRC)
Sampling frequency	44.1 kHz
Coding	Adaptive Transform Acoustic Coding (ATRAC)
Modulation system	EFM (Eight-to-Fourteen Modulation)
Number of channels	2 stereo channels
Frequency response	5 to 20,000 Hz $\pm 0.3 \text{ dB}$
Signal-to-noise ratio	Over 96 dB during playback
Wow and flutter	Below measurable limit

Inputs

	Jack type	Input impedance	Rated input	Minimum input
LINE (ANALOG) IN	Phono jack	47 kilohms	500 mV rms	125 mV rms
DIGITAL OPTICAL IN	Square optical connector jack	Optical wave length: 660 nm	—	—
AEP, UK, German models: DIGITAL COAXIAL IN	Phono jack	75 ohms	0.5 Vp-p, $\pm 20\%$	—

Outputs

	Jack type	Rated output	Load impedance
PHONES	Stereo phone jack	10 mW	32 ohms
LINE (ANALOG) OUT	Phono jack	2 V rms (at 50 kilohms)	Over 10 kilohms
DIGITAL OUT	Square optical connector jack	-35 dBm	Wave length: 660 nm

— Continued on next page —

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web apr 2 2013 this paper presents the modeling and simulation of digital reverse power relay on matlab simulink in this simulation the relay performance is tested on 11kv synchronous generator connected with 220kv through a step up transformer

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web jun 27 2009 a built in block that models an electromagnetic relay is not available in simpowersystems 5 0 r2008b however there is a demo model under the Simscape 3 0 r2008b product that could be used as a reference model for building a relay

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web the protection relay block implements a protection relay for the hardware and the motor with definite minimum time dmt trip characteristics using the reference limit feedback and reset input signals in the event of a fault the block generates a latched fault signal that you can use to protect the hardware and the motor

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web jun 17 2020 in this paper a digital multi function protective relay was designed and implemented on matlab simulink in this study we also explore some current techniques ranging from the use of digital logic algorithms to system protection applications