

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
MCD Mechanism Type	MDS-DA200
Control Pack-up Type	MDS-J50A/UTN

SPECIFICATIONS

System	MiniDisc digital audiotape
Disc	MiniDisc
Level	Compressionless (less than 1% loss) Expansion sufficient (continuous)
Gain output	Less than 60 dB gain * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with Tapes aperture
Power consumption properties	Standby: 1.5W Still: 10W to 100W Full: 10W to 100W
Resolution (D/A)	16-bit (16.5 dB)
Inter-connection	Subminiature D-type (5-pin) MiniDisc Subminiature D-type (5-pin) MiniDisc
Sampling frequency	44.1 kHz
Coding	Adaptive Transform Acoustic Coding (ATRAC)
Modulation system	2TMS (Digital to Analog Modulation)
Number of channels	2 channels (Stereo)
Frequency response	20 Hz to 20 kHz (at 0 dB)
Signal-to-noise ratio	Over 90 dB during playback
Size and Weight	Below: 100 mm (4 in)

Inputs				
	Disc type	Input impedance	Input level	Maximum input
LINE (ANALOG) IN	Phono (pin)	47 kΩ (typical)	100 mV (typical)	100 mV (typical)
STEREO (DIGITAL) IN	Optical (pin)	Optical (pin)	—	—
MONITOR (DIGITAL) IN	Optical (pin)	Optical (pin)	—	—
MONITOR (DIGITAL) IN	Optical (pin)	Optical (pin)	—	—
Outputs				
	Disc type	Output impedance	Load impedance	
STEREO (ANALOG) OUT	Phono (pin)	10 kΩ (typical)	10 kΩ (typical)	—
STEREO (DIGITAL) OUT	Optical (pin)	Optical (pin)	Optical (pin)	—
STEREO (DIGITAL) OUT	Optical (pin)	Optical (pin)	Optical (pin)	—
STEREO (DIGITAL) OUT	Optical (pin)	Optical (pin)	Optical (pin)	—

— Continued on next page —

MINIDISC DECK

SONY



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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em 110 2uz fe engine mechanical engine unit b using the crankshaft damper bolt turn the crankshaft to align the timing marks of the crankshaft timing pulley and oil pump body em approx 45 timing mark turn

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web dec 9 2020 put the wrench on the crank bolt and turn it clockwise until the mark on the harmonic balancer crank pulley lines up with the tdc mark on the lower timing cover now look at the cam sprocket the dowel in the cam should be in the hole for number 1 on some older b2000 engines they might have an a b c all alignment should be on a

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web mar 11 2020 there are no one size fits all timing solutions but a generally stock headed fe will like around 38 degrees total timing you generally don t have to worry too much about initial timing over 12 degrees but again you have to be careful with the vacuum advance to not get back into that over advance situation

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install

chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum with molded nylon teeth for quieter operation

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web jul 22 2009 a set the timing mark to 0 on the timing chain cover by rotating the crankshaft clockwise b verify the timing marks on the camshaft timing gears are in general alignment with the timing marks of the camshaft bearing cap see chart note when the engine is correctly timed the timing marks will not perfectly align

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