

# CDX-CA700/CA700X

## SERVICE MANUAL

Ver 1.1 2003.02



Photo: CDX-CA700

US Model  
Canadian Model  
CDX-CA700X  
AEP Model  
UK Model  
CDX-CA700/CA700X

\* The tuner and CD sections have no adjustments.

**AUDIO POWER SPECIFICATIONS (US Model)**  
POWER OUTPUT AND TOTAL HARMONIC DISTORTION  
23.2 watts per channel maximum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 5% total harmonic distortion.

|                                    |                |
|------------------------------------|----------------|
| Model Name Using Similar Mechanism | NEW            |
| CD Drive Mechanism Type            | MG-393XA-1210Q |
| Optical Pick-up Name               | K5B-720A       |

### SPECIFICATIONS

#### CD player section

Signal-to-noise ratio 90 dB  
Frequency response 10 – 20,000 Hz  
Wow and Flutter Below measurable limit

#### Tuner section

FM  
Tuning range 87.5 – 107.9 MHz (US, Canadian Model)  
87.5 – 106.9 MHz (AEP, UK Model)  
Antenna terminal External antenna connector  
Intermediate frequency 10.7 MHz/450 kHz  
Usable sensitivity 8 dB  
Selectivity 75 dB at 400 kHz  
Signal-to-noise ratio 65 dB (noise),  
72 dB (noise)  
Stereo distortion at 1 kHz 0.5% (noise),  
0.3% (noise)  
Separation 75 dB at 1 kHz  
Frequency response 30 – 15,000 Hz

#### AM (US, Canadian Model)

Tuning range 530 – 1,710 kHz  
Antenna terminal External antenna connector  
Intermediate frequency 10.7 MHz/450 kHz  
Sensitivity 30  $\mu$ V

#### MW/LW (AEP, UK Model)

Tuning range MW: 531 – 1,600 kHz  
LW: 153 – 179 kHz  
Aerial terminal External aerial connector  
Intermediate frequency 10.7 MHz/450 kHz  
Sensitivity MW: 30  $\mu$ V  
LW: 140  $\mu$ V

#### Power amplifier section

Outputs Speaker outputs  
(four real connectors)  
4 – 8 ohms  
Speaker impedance  
Maximum power output 32 W x 4 (at 4 ohms) (US, Canadian Model)  
30 W x 4 (at 4 ohms) (AEP, UK Model)

#### General

Outputs Audio outputs (front/rear)  
Power antenna relay control terminal  
Power amplifier control terminal  
Inputs Telephone A/T control terminal  
Dimmer control terminal  
BUC control input terminal  
BUC audio input terminal  
Remote controller input terminal  
Antenna input terminal  
Tone controls Bass +10 dB at 60 Hz (US, Canadian Model)  
Bass +8 dB at 100 Hz (AEP, UK Model)  
Treble +10 dB at 10 kHz (US, Canadian Model)  
Treble +8 dB at 10 kHz (AEP, UK Model)  
Loadness +8 dB at 100 Hz  
+2 dB at 10 kHz

— Continued on next page —

**FM/AM COMPACT DISC PLAYER**

CDX-CA700X

**FM/MW/LW COMPACT DISC PLAYER**

CDX-CA700/CA700X

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a Vehicle Company  
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# Sony Cdx Ca700x Manual

**JL Elias**



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web we can think graphs of absolute value and quadratic functions as transformations of the parent functions  $x$  and  $x^2$  importantly we can extend this idea to include transformations of any function whatsoever this fascinating concept allows us to graph many other types of functions like square cube root exponential and logarithmic functions

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web the range of a quadratic function written in standard form  $f(x) = a(x - h)^2 + k$  with a positive  $a$  a value is  $f(x) \geq k$  the range of a quadratic function written in standard form with a negative  $a$  a value is  $f(x) \leq k$

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web describing transformations of quadratic functions quadratic function is a function that can be written in the form  $f(x) = a(x - h)^2 + k$  where  $a \neq 0$  the u shaped graph of a quadratic function is called a parabola in section 1 1 you graphed quadratic functions using tables of values

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web a quadratic function is in what shape 1 the parent function of a quadratic equation is  $f(x) = x^2$  how would a shift to the left three units be written 2 how would you write the equation for

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web more importantly these equations show the two special forms of these types of functions form equation uses standard form  $y = ax^2 + bx + c$  simplified form vertex form  $y = a(x - h)^2 + k$  transformations of parent function sketch graphs determine equation from a graph transformation effects when a quadratic function is given in the

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web feb 11 2022 there are 4 transformations that may happen to a quadratic function translation or shifting that will move it horizontally and vertically a reflection that will flip the graph vertical

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web the parent function of the quadratic family is  $f(x) = x^2$  a transformation of the graph of the parent function is represented by the function  $g(x) = a(x - h)^2 + k$  where  $a \neq 0$  identifying graphs of quadratic functions 6 6 4 4 communicate your answer 4 2 how do the constants  $a$   $h$  and  $k$  affect the graph of the quadratic function  $g(x) = a(x - h)^2 + k$

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web 1 explain the advantage of writing a quadratic function in standard form 2 how can the vertex of a parabola be used in solving real world problems 3 explain why the condition of  $a \neq 0$  is imposed in the definition of the quadratic function

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web converting standard form of quadratic function into vertex form a quadratic function  $f(x) = ax^2 + bx + c$  can be easily converted into the vertex form  $f(x) = a(x - h)^2 + k$  by using the values  $h = -b/2a$  and  $k = f(-b/2a)$  here is an example

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web when a quadratic function is represented in vertex form following points are to be noted if  $h > 0$  graph shifts right by  $h$  units if  $h < 0$  graph shifts left by  $|h|$  units if  $k > 0$  graph shifts upwards by  $k$  units if  $k < 0$  graph shifts downwards by  $|k|$  units

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web the last example shows us that to graph a quadratic function of the form  $f(x) = x^2 + k$   $f(x) = x^2 - k$  we take the basic parabola graph of  $f(x) = x^2$   $f(x) = x^2$  and vertically shift it up  $k$  0  $k$  0 or shift it down  $k$  0  $k$  0

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web oct 24 2011 identify the vertex  $(h, k)$  2 choose another point on the graph  $(x, y)$  3 plug  $h$   $k$   $x$  and  $y$  into and solve for  $a$  4 use  $h$   $k$  and  $a$  to write the vertex form of the quadratic function 13 example write a quadratic function to model each graph 14 example write a quadratic function to model each graph