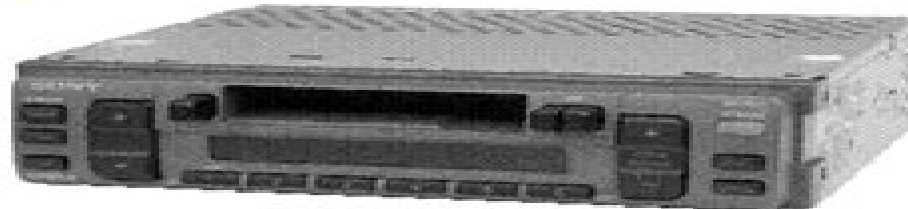


# XR-1100

## SERVICE MANUAL

Ver 1.1 2001.06

US Model  
Canadian Model  
UK Model  
E Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36S21G-32

### SPECIFICATIONS

#### AUDIO POWER SPECIFICATIONS (US model only)

#### POWER OUTPUT AND TOTAL HARMONIC DISTORTION

17 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

#### Cassette player section

Tape track 4-track 2-channel stereo  
Wow and flutter 0.1% (NABMS)  
Frequency response 30 – 15,000 Hz  
Signal-to-noise ratio 55 dB

#### Tuner section

##### FM

Tuning range (1)  
US and Canadian models : 87.5 – 107.9 MHz  
E and UK models : 87.5 – 107.9 MHz  
IFM tuning interval (1)  
50 kHz / 100 kHz  
switchable  
87.5 – 106.0 MHz  
(at 50 kHz step)  
87.5 – 107.9 MHz  
(at 200 kHz step)  
External antenna connector  
30.7 MHz

Antenna terminal  
Intermediate frequency  
Usable sensitivity  
Sensitivity  
Signal-to-noise ratio  
65 dB (mono)  
68 dB (stereo)

Harmonic distortion at 1 kHz

0.7% (mono)  
0.4% (stereo)

Separation  
35 dB at 1 kHz  
Frequency response 30 – 15,000 Hz

##### AM

Tuning range  
US and Canadian models : 530 – 1,750 kHz  
E and UK models :  
AM tuning interval  
9 kHz / 10 kHz switchable  
531 – 1,650 kHz  
(at 9 kHz step)  
530 – 1,750 kHz  
(at 10 kHz step)

Antenna terminal  
Intermediate frequency  
Sensitivity  
15.71 MHz / 450 kHz  
50 µV

#### Power amplifier section

Outputs  
Speaker outputs  
(4-speaker connection)  
4 – 8 ohms  
Maximum power output  
45 W x 4 (at 4 ohms)

– Continued on next page –

FM/AM CASSETTE CAR STEREO

SONY®

# Sony Xr 1100 Car Receivers Owners Manual

**Padhraic Smyth**



**Sony Xr 1100 Car Receivers Owners Manual:**

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web among the lanthanides in addition to 3 states 2 states are shown by Nd Sm Eu Tm and Yb only whereas 4 state is exhibited by Ce Pr Nd Tb and Dy elements rest five elements show only 3 states oxidation states of lanthanide elements it has been shown that the lanthanide elements are highly electropositive and form essentially ionic

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web the lanthanide 'lænθənaɪd or lanthanoid 'lænθənɔɪd series of chemical elements a comprises the 14 metallic chemical elements with atomic numbers 57 70 from lanthanum through ytterbium 2 3 4 lutetium is also sometimes considered a lanthanide despite being a d block element and a transition metal

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web a central feature of lanthanide chemistry is the strongly ionic character of the bonding between lanthanide cations and other atoms as a result of this ionicity they can be classified as hard strongly acidic cations this hard acid nature is evident whether we consider the bonds between lanthanide cations with oxygen nitrogen or halogen

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web may 3 2019 lanthanides definition the lanthanides are generally considered to be elements with atomic numbers 58 71 lanthanum to lutetium the lanthanide series is the group of elements in which the 4f sublevel is being filled all of these elements are metals specifically transition metals they share several common properties

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web five of the elements la ce pr nd eu are very reactive and when exposed to air react with oxygen to form an oxide coating that tarnishes the surface for this reason these metals are stored under mineral oil the remainder of the lanthanides are not as reactive and some gd lu retain their silvery metallic appearance for a long time

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web jul 12 2023 lanthanides elements 57 71 are fairly abundant in the earth s crust despite their historic characterization as rare earth elements thulium the rarest naturally occurring lanthanoid is more common in the earth s crust than silver 4 5 10 5 versus 0 79 10 5 by mass

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web jun 30 2023 elements lanthanum 57 through lutetium 71 on the periodic table are considered to be lanthanides lanthanides tend to react with oxygen to form oxides the reaction at room temperature can be slow while heat can cause the reaction to

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web dec 12 2019 here s a list of the 15 elements that are lanthanides which run from atomic number 57 lanthanum or ln and 71 lutetium or lu lanthanum symbol ln atomic number 57 cerium symbol ce atomic number 58 praseodymium symbol pr atomic number 59 neodymium symbol nd atomic number 60 promethium symbol pm

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web the fifteen elements shown in table pageindex 1 from lanthanum la 4f 0 to lutetium lu 4f 14 are lanthanoids ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium sc and yttrium y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium

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using an acid base titration in general an acid and a base react to produce a salt and water by transferring a proton  $\text{H}^+$   $\text{H}^+$  aq  
 $\text{NaOH}$  aq  $\text{H}_2\text{O}$  l  $\text{Na}^+$  aq  $\text{Cl}^-$  1 acid base salt

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web determination of an unknown quantity of aspirin using back titration back ground theory many reactions are slow or present unfavourable equilibria for direct titration aspirin is a weak acid therefore it can react with a base such as sodium hydroxide  $\text{NaOH}$  this is an example of an acid base titration see reaction 1

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web determination of aspirin using back titration this experiment is designed to illustrate techniques used in a typical indirect or back titration you will use the  $\text{NaOH}$  you standardized last week to back titrate an aspirin solution and determine the concentration of aspirin in a typical analgesic tablet you will be graded on your accuracy

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web topic determination of aspirin in tablets using back titration aim to calculate and compare the active pharmaceutical ingredient  $\text{API}$  in different commercially available aspirin tablets of the same batch using titration technique standard  $\text{s}$  indicator  $\text{s}$  5 1 8 b1

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web what is back titration it is basically an analytical technique in chemistry which is performed backwards in the method that is a user needs to find the concentration of a reactant of a given unknown concentration by reacting it with an excess volume of another reactant of a known concentration

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web second you will titrate a sample of your aspirin acetylsalicylic acid with the standardized  $\text{NaOH}$  to determine the moles of acid in a given weight of your product this will allow you to assess its purity assuming the aspirin is not contaminated with other acids the titration allows you to quantitatively determine the purity of your aspirin

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web 4 6 back titration 1 the active ingredient in aspirin tablets is acetylsalicylic acid c9h8o4 the acetylsalicylic acid content of an aspirin tablet can be determined using a back titration four aspirin tablets were crushed and added to 25 0 cm<sup>3</sup> of 1 00 mol l<sup>-1</sup> sodium hydroxide solution

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web pubchemdatabase aspirin cid 2244 here back titration was done to obtain the concentration of aspirin from known aspirin tablets amount of product expected was 0 5g measured yield obtained was 0 335g which shows there was an error in the determination

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web of this study is to analysis of aspirin and compares both direct titration and back titration techniques to the standard hplc technique in order to find alternative easy and cheaper procedure to assess the quality of active components of medications aspirin in

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