

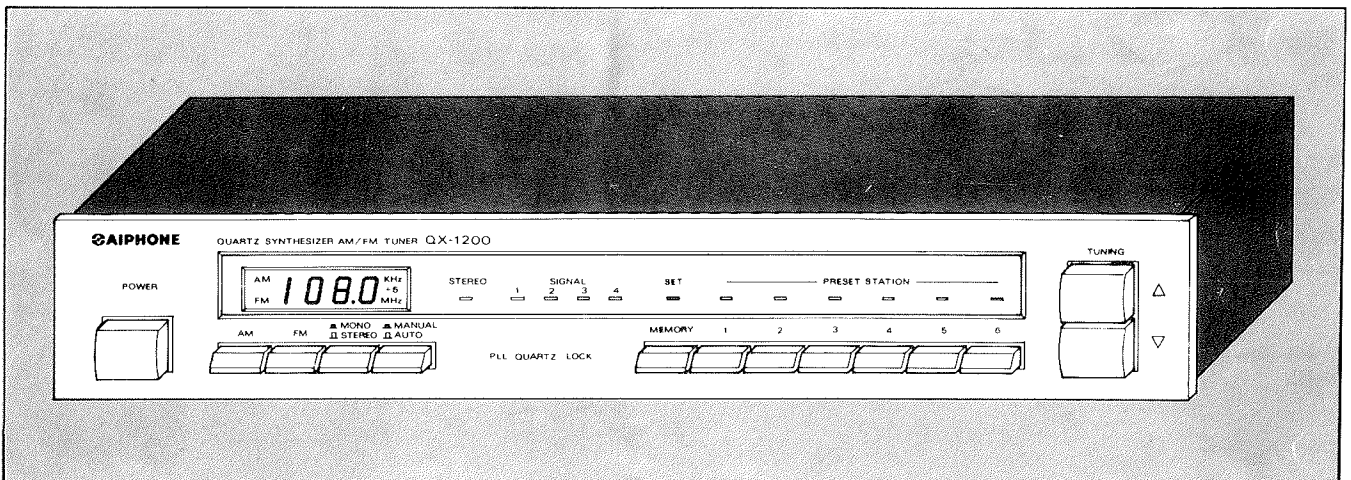
QUARTZ SYNTHESIZER AM/FM TUNER

MODEL: QX-1200

— INSTRUCTIONS —

The QX-1200 is a quartz synthesized stereo/monaural AM/FM tuner, offering stable, drift-free reception for your background music system in conjunction with the Aiphone or other paging systems.

One touch tuning allows instant recall of up to 12 preprogrammed stations, six AM and six FM stations. Automatic muting eliminates extraneous noise while tuning.



FEATURES

- * Digitally Synthesized Quartz Locked Tuning.
- * High Sensitivity & Exceptionally Stable Reception.
- * 6 Station presettable memory for both AM and FM.
- * Automatic "Next Station Search" mode tuning.
- * Convenient digital frequency display for manual tuning.
- * On-line battery backup for station memory.
- * Stereo/monaural output.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

SPECIFICATIONS

FM Specifications:

* Frequency Range	87.5MHz – 108.0MHz
* Sensitivity	10.8dBf, IHF 16.1dBf for 50dB S/N mono 37.7dBf for 50dB S/N stereo
* Separation	48dB at 1KHz 36dB at 10KHz
* Selectivity	36dB alternate channel
* S/N ratio at 65dBf	82dB mono 76dB stereo
* Total Harmonic Distortion (at 1KHz)	0.1% mono 0.15% stereo
* Capture Ratio	1.4dB
* AM Suppression	6.5dB
* Image Response Ratio	Better than 90dB
* IF Response Ratio	Better than 90dB
* Stereo Threshold	16.1dBf
* Muting Threshold	16.1dBf

AM Specifications:

* Frequency Range	520KHz – 1610KHz
* Sensitivity	175 μ V/m. IHF
* Image Response Ratio	50dB
* S/N ratio	42dB
* Selectivity	25dB

General Specifications:

* Memory	12 stations (6 x AM and 6 x FM)
* Output	650mV rms/50K ohm
* Power Input	AC 120V 60Hz
* Power Consumption	11 watts
* Dimensions	2-11/16''H x 16-5/8''W x 12-5/8''D (67 m/m x 422 m/m x 320 m/m)
* Weight	8 lbs 13 oz (4 kg)

INSTALLATION

The QX-1200 should never be placed directly on top of a component that generates heat, such as a power amplifier. Make sure it is not located near a heater, radiator or a window that might be left open in the rain.

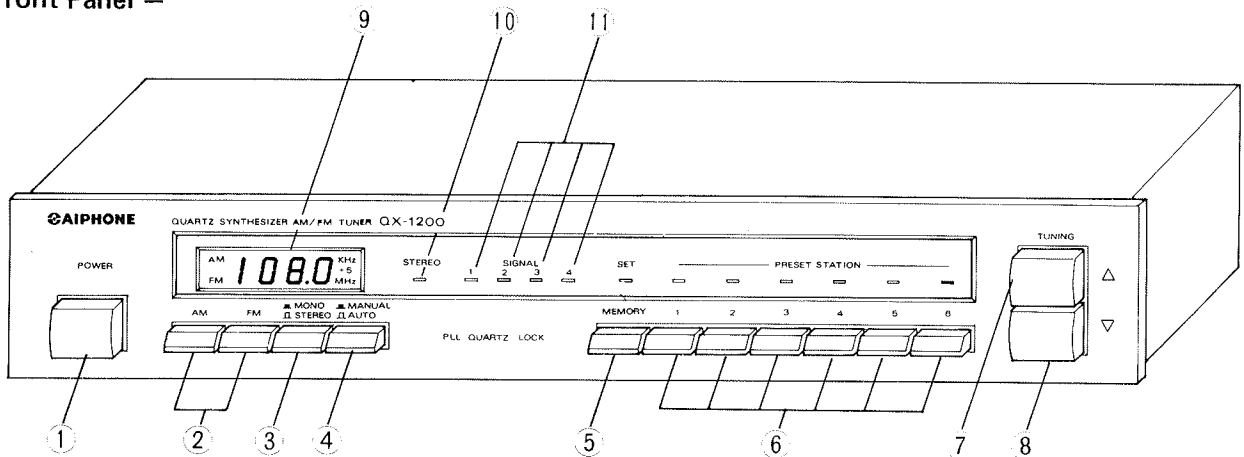
Make sure the audio leads are pressed or attached in firmly and are not stretched taut so they could pull loose later.

Never make or break these connections while your amplifier or preamplifier is switched on.

The audio output may be connected to the music input of any one of the Aiphone paging adaptors or amplifiers, i.e. PG-U, PB-1, PA-1, MC-A, PA-T, YAW-R, PG-10A, PG-30A, PG-60A, etc.

OPERATIONS/INSTRUCTIONS

— Front Panel —



- ① POWER SWITCH
Depress to turn the power ON. Release to turn OFF.
- ② AM/FM SELECT SWITCH
Depress desired one.
* Never depress both at the same time.
- ③ MONO/STEREO SWITCH
Depress for monaural reception. Release for stereo reception.
- ④ AUTOMATIC/MANUAL TUNING MODE SWITCH
Depress for manual tuning operation. While in this mode the tuning will advance by 100KHz increments on the FM band or by 10KHz increments on the AM band by pressing the appropriate Tuning Switch ⑦ or ⑧.
- ⑤ MEMORY SWITCH / SET INDICATOR
Press the MEMORY switch ⑤ to set the station memory function. When the switch is pressed, the SET indicator will illuminate for approximately five seconds, and indicate the tuned station can now be memorized by pressing any one of the six STATION SELECT switches ⑥.
* After the SET indicator goes out, the memory can no longer be entered unless the MEMORY switch is pressed again.

⑥ STATION SELECT SWITCHES / PRESET STATION INDICATORS

Press a desired switch to enter the tuned station in the memory while the SET indicator illuminates. (See the MEMORY SWITCH / SET INDICATOR operations.)

When recalling a memorized station, simply press the desired station select switch. The appropriate PRESET STATION indicator will illuminate, and indicate which preset station has been selected. The station frequency will also be displayed at the FREQUENCY DISPLAY ⑨.

⑦ TUNING-UP SWITCH

Press to tune to a higher frequency (MANUAL) or the next higher station (AUTOMATIC).

⑧ TUNING-DOWN SWITCH

Press to tune to a lower frequency (MANUAL) or the next lower station (AUTOMATIC).

* Keep pressing the TUNING-UP/DOWN switches for fast advance or reverse.

⑨ FREQUENCY DISPLAY

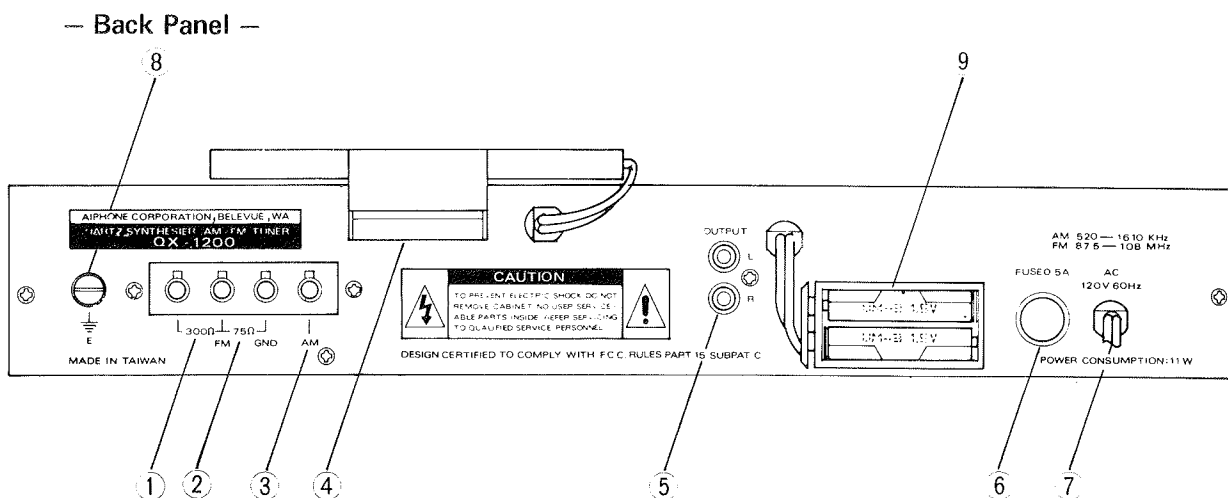
Shows the frequency of the tuned and/or selected station.

⑩ STEREO INDICATOR

This will become lit whenever a stereo FM broadcast is received as long as the MONO/STEREO switch is released. Very weak or distant stations may cause the indicator to flicker on and off.

⑪ SIGNAL STRENGTH INDICATORS

The four indicators show signal strength. The first three of all indicators should be lit for noise-free, good reception.



① FM ANTENNA TERMINALS – 300 OHM

The provided T-shaped dipole antenna with the QX-1200 or any other 300 ohm antenna cable may be connected.

Direct the antenna for the best reception.

When using an antenna for a TV set, make sure to use TV-FM spreader.

② FM ANTENNA TERMINALS — 75 OHM

A 75 ohm coaxial cable from an FM antenna may be connected. Connect the core conductor to the terminal marked 75 ohm and the braided shield to the GND terminal. See page 5.

③ AM EXTERNAL ANTENNA TERMINAL

If the ferrite rod ④ does not provide adequate AM reception, an outdoor antenna may be attached to this terminal as shown in the drawing. See page 5.

④ AM FERRITE ROD ANTENNA

Extend this away from the back of the QX-1200 and rotate as required for the best AM reception.

* Do not use as a handle; it cannot hold the weight.

⑤ OUTPUT JACKS

The audio output for the music input of a paging adaptor or an amplifier.

⑥ MAIN FUSE

When this blows, it indicates possible internal component(s) failure. Do not replace with any larger value to avoid damage.

* Substitution of a larger fuse will void your warranty.

⑦ AC CORD/PLUG

Plug into an AC outlet (AC 120V, 60Hz).

⑧ CHASSIS GROUND TERMINAL

To ground the chassis of the tuner.

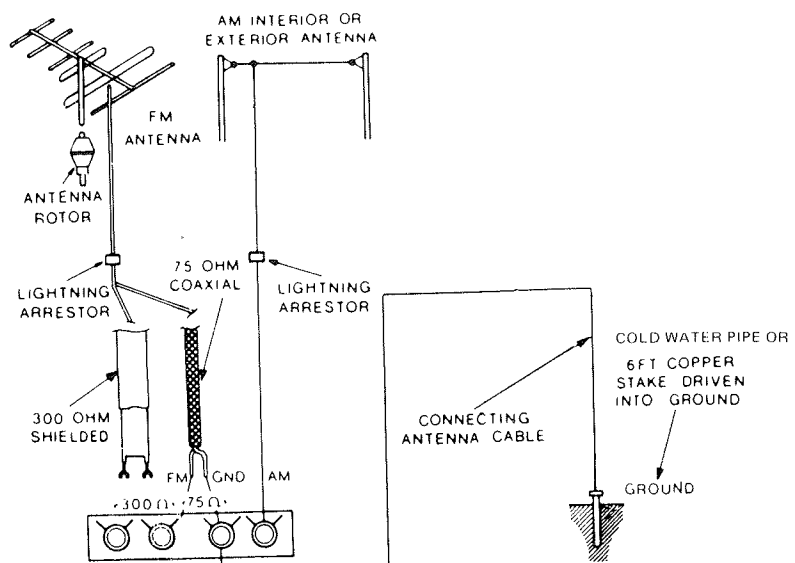
Under certain rare circumstances hum may be reduced by disconnecting this.

⑨ MEMORY BACK-UP BATTERY HOLDER

Two size "AA" batteries can be used to sustain the preset station memory for up to a year in the absence of AC power.

Make sure that the batteries are inserted for correct polarity.

— ANTENNA CONNECTION —



— A NOTE FOR BEST RECEPTION —

FM broadcasts are prone to several forms of interference; the most disturbing is multi-path interference, which is analogous to "ghosting" on your TV set. You may find that you have to experiment quite a bit with antenna placement for some stations.

Particularly weak or distant stations can be received with the MONO switch depressed; this also defeats the interstation FM muting which might otherwise interpret the weak signal as simply noise.

**CAUTION: TO PREVENT ELECTRIC SHOCK. DO NOT REMOVE CABINET.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

THIS DESIGN HAS BEEN CERTIFIED TO COMPLY WITH PART 15, SUB PART C OF THE FCC RULES AND REGULATIONS.

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We at AIPHONE are proud of our products. Our designers and engineers strive to bring you the finest in sound equipment. Each item has been carefully tested and inspected before leaving our factory. Properly installed and used, your Aiphone sound system should give years of troublefree service.

We are pleased to offer the following warranty:

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserve unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.

This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory.

This warranty does not cover batteries or damage caused by batteries used in connection with the product.

This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone. Aiphone will not be responsible for any costs incurred involving on site service calls.

Aiphone Corporation, Bellevue, Washington
QX-1200-I 0985



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