

Technics

FM WING ANTENNA

SH-F101

OPERATING INSTRUCTIONS



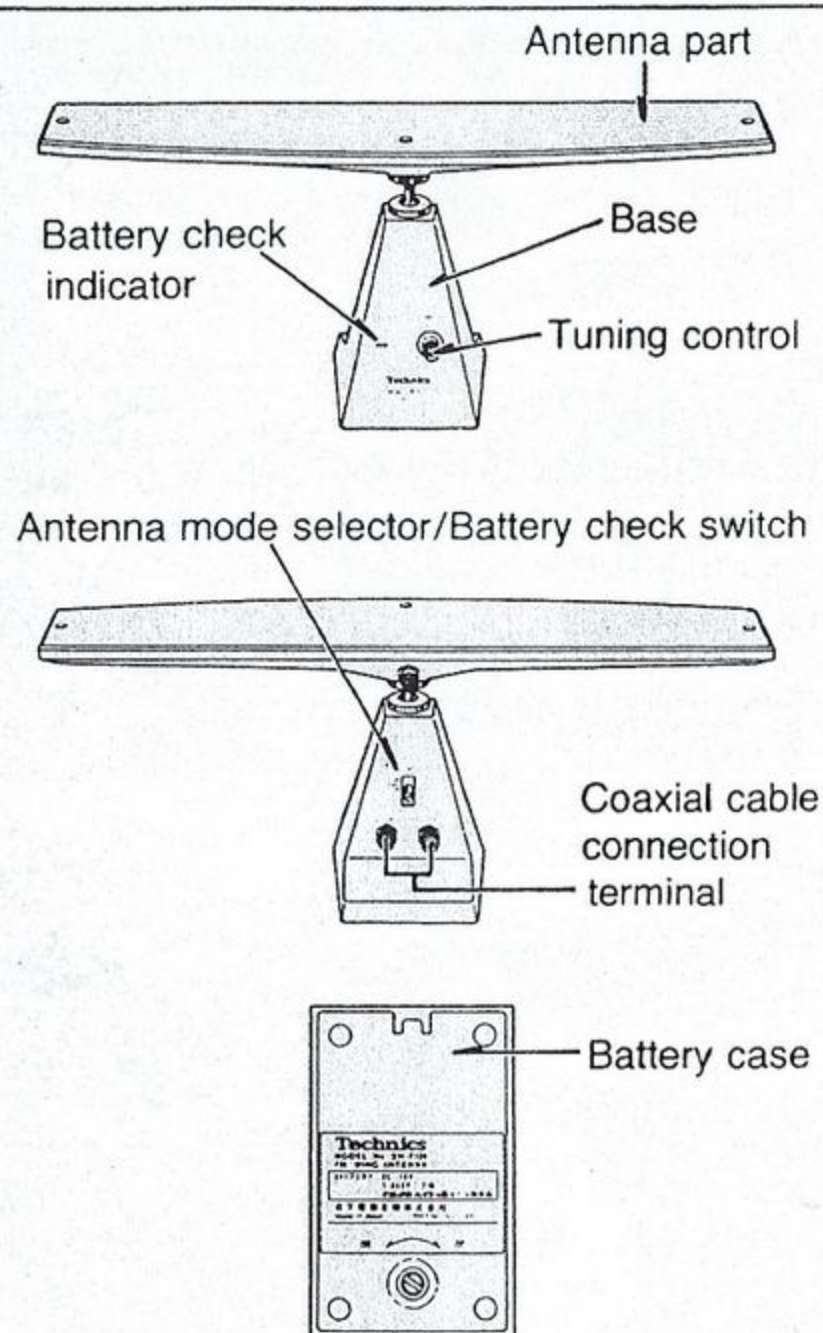
Before operating this unit, please read these instructions completely.

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world.

This FM wing antenna can be used with Technics quartz-synthesizer tuners (which have an antenna selector), as well as with any other type of tuner.

Parts Identification

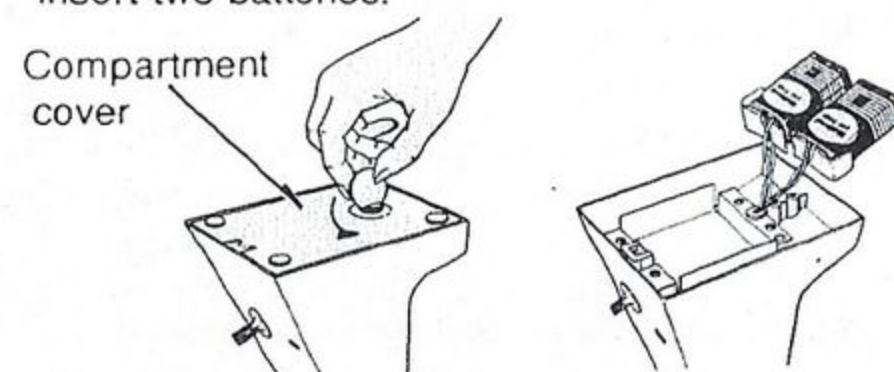


Accessories

Coaxial cable with F-type plug short/long1 each
F-Type plug/ring1 each

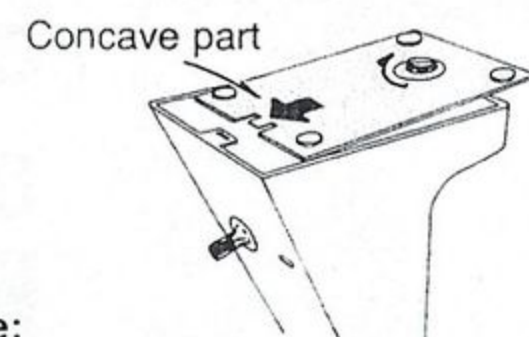
Insertion of batteries

1 Remove the battery compartment cover, and insert two batteries.



We feel certain you will get maximum enjoyment from this new addition to your home. Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

2 After first fitting in the concave part of the cover, tighten the screw.



Note:

If a Technics quartz-synthesizer tuner with an antenna selector is used, the use of batteries is not necessary. Be sure, however, to set the antenna-mode selector to the "auto" position.

■ Type of batteries 9V Batteries (006P) × 2

Notes concerning service life and use of batteries

■ Battery service life

The useful service life of batteries in this unit is approximately 18 months. When the antenna-mode selector/battery-check switch is set to the "BATTERY" position, the indicator will become red. If the color of the indicator becomes dark, or if reception sensitivity seems to be worse than before, the batteries should be replaced immediately.

Note: Do not use the battery-check switch unless necessary, because frequent use will cause the batteries to become weak faster.

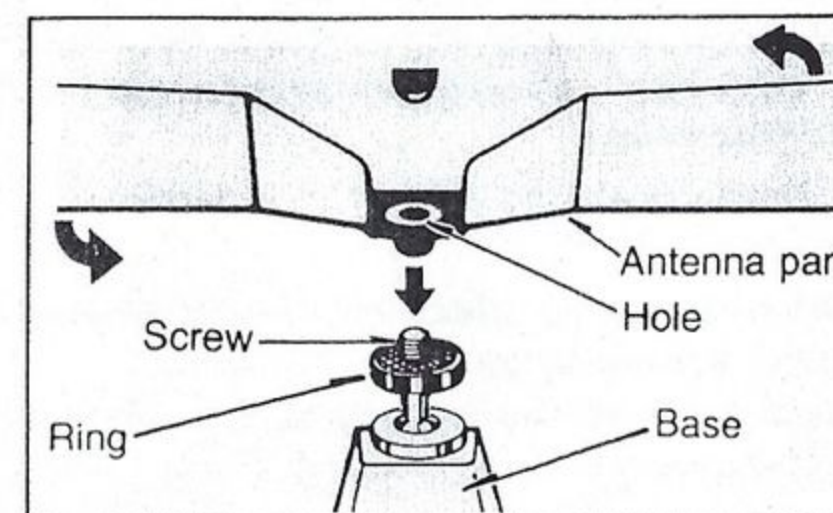
■ Notes concerning use of batteries

1. Remove the batteries if they are not to be used for a long time.
2. Immediately dispose of old or weak batteries. Be careful not to mix them with new batteries.
3. Do not attempt to recharge or disassemble batteries, and be careful not to short-circuit them or subject them to fire or excessive heat.
4. Be sure that both batteries are the same type. (Never mix alkali batteries with another type, such as a manganese type of battery.)

Assembly

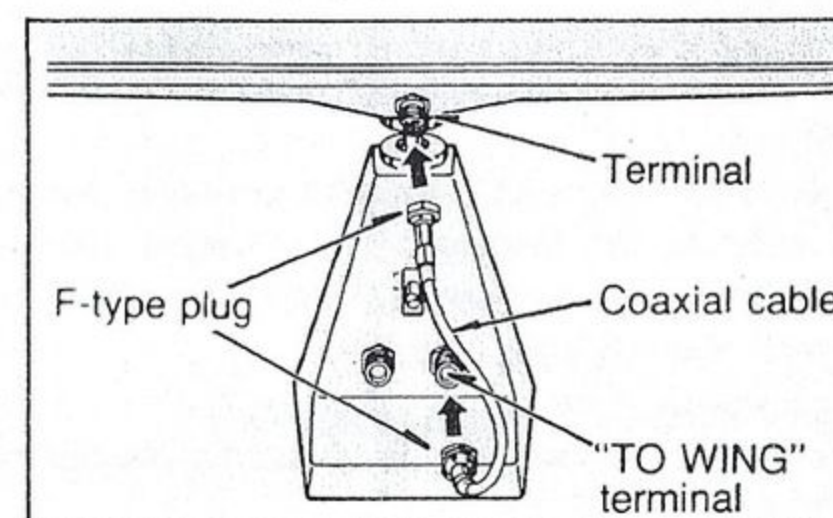
1. Attach the base and antenna part to each other.

Insert the screw (for attachment of the base) into the hole at the back part of the antenna. Then, after turning the antenna to tighten the screw, completely tighten the ring (for securing the base).



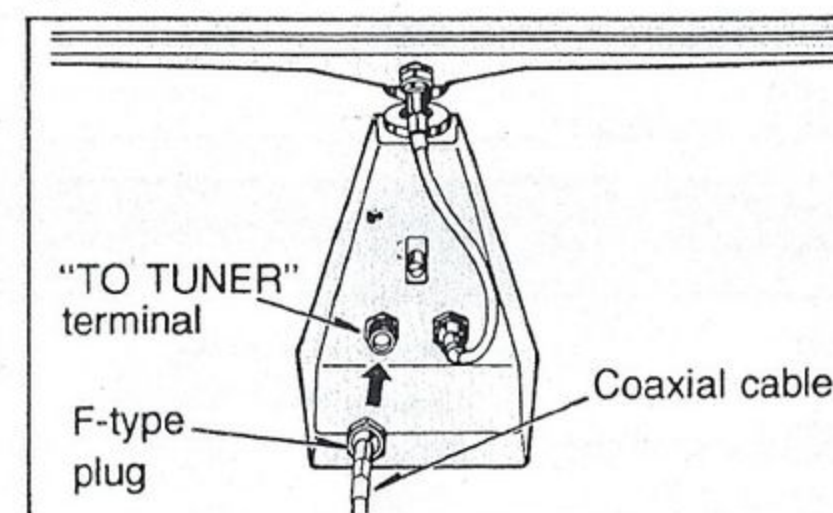
2. Connect the short coaxial cable (with F-type plug attached) to the antenna and to the base.

Connect the F-type plug to the terminal on the back of the antenna, and connect the other end to the terminal marked "TO WING" on the base.



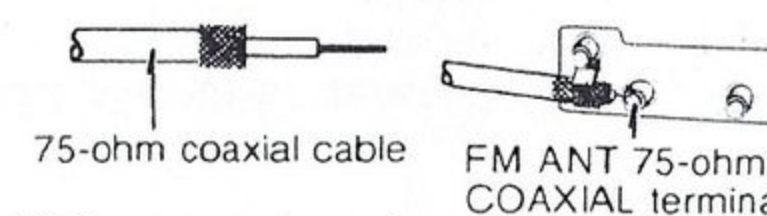
3. Connect the long coaxial cable to the base and to the tuner.

Connect the end with the F-type plug to the terminal marked "TO TUNER" on the base, and connect the other end to the FM antenna terminal of the tuner.

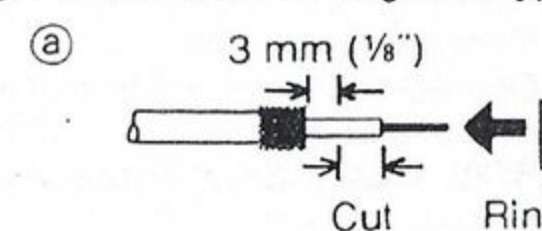
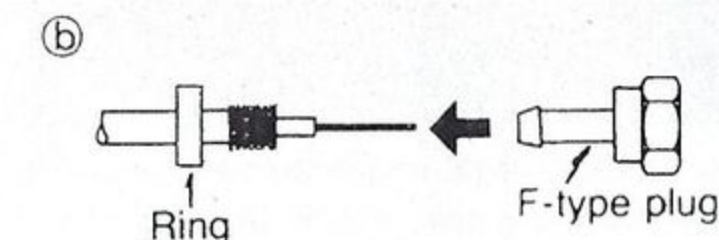
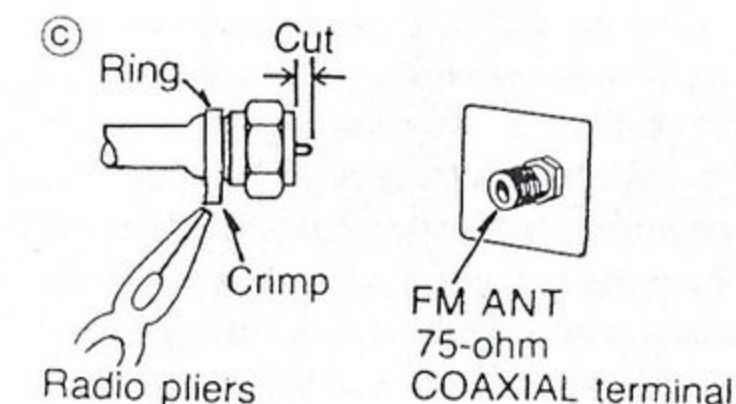


Note: Depending on the type of FM antenna terminal of the tuner being used, this connection may require the use of an F-type plug (included). The connection to some tuners can be made as is, without using an F-type plug.

① For connection without using an F-type plug



② For connection using an F-type plug (included)



How to use the wing antenna

1. Set the antenna-mode selector of this unit to the position corresponding to the type of tuner being used.

auto:

Set to this position when a Technics quartz-synthesizer tuner with an antenna selector is to be used.

Be sure to set the antenna selector (on the tuner) to the "TUNED TYPE" position.

manual:

Set to this position if the tuner is any type other than described above.

2. Adjustment of sensitivity

When the antenna-mode selector is set to the "auto" position:

Gently move the antenna part backward/forward, left/right and up/down in order to find the position of maximum sensitivity.

When the antenna-mode selector is set to the "manual" position:

Set the "•" mark on the tuning control of this unit to the position corresponding to the frequency to be tuned. Then, while watching the signal-strength indicator of the tuner, move the antenna part in order to find the position of maximum sensitivity. Then use the tuning control once again for fine tuning.

Notes:

1. As a guide for adjustment, reception sensitivity is good when the antenna is placed so that it faces toward the direction of the broadcast signal.
2. Although this unit can be placed on the top of the tuner, the metal cabinet of the tuner may cause interference noise. If this happens, try changing the direction of the antenna in order to find the direction of optimum reception. Also remember that reception sensitivity is better if the antenna is placed in a high place.

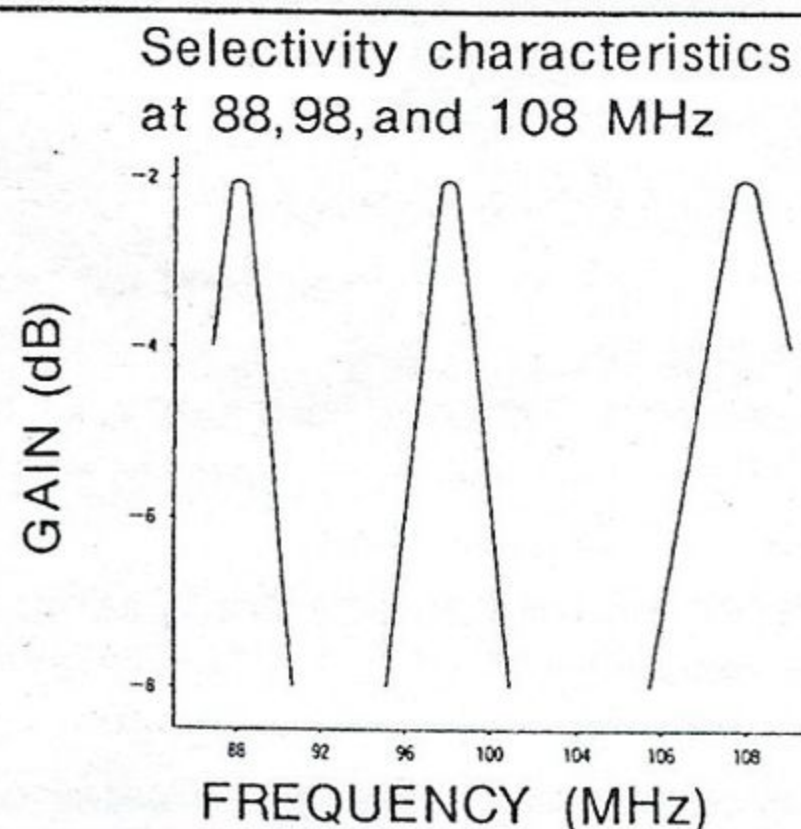
Features

This antenna includes built-in electronic-tuning circuitry. In order to obtain a gain of 0 dB, the length of a half-wave dipole antenna properly designed to meet the standard for antenna gain would have to be 1.8 meters. By using the FM wing antenna, however, a length of only 43 cm is necessary, and, furthermore, it is possible to obtain gain which is close to the optimum gain for a dipole antenna at any frequency, thus resulting in optimum reception conditions at all times. In addition, because the antenna itself has extremely sharp selectivity characteristics, only FM signals are supplied to the tuner, without such annoying signals as interference from nearby vehicles or other interference noise which is often a problem for satisfactory reception, especially in urban areas.

The heavy base is manufactured of diecast material for excellent stability. The direction of the antenna part can be easily changed in order to find the direction which gives the optimum conditions of reception. By using the antenna-mode selector, this unit can be used not only of course with a Technics quartz-synthesizer tuner, but also with any other type of tuner.

This unit also includes a convenient battery-check switch and indicator to permit easy confirmation of the strength of the batteries.

Characteristics graph



Operation cautions

■ Avoid water

If water should get inside this unit, its sensitivity might become lessened.

■ Keep this unit away from stoves and other sources of heat.

Heat can cause deformation of the unit, damage to internal components, and may shorten its useful service life.

■ Avoid placement next to metal objects or a steel-reinforced concrete wall.

Nearby metal may result in a decrease of the sensitivity of this unit.

■ Avoid using alcohol, paint-thinner and spray-type insecticides.

Such materials may cause the surfaces of this unit to become "cloudy" or cracked.

■ If the antenna becomes dirty...

Clean the antenna by using a soft, dry cloth.

Product service

■ Warning concerning removal of covers

This unit should be serviced by qualified technicians only. No service information is provided for customers.

Should your "Technics" product ever require servicing, refer to the Directory of Authorized Service Centers or your franchised "Technics" dealer for detailed instructions.

■ Location of serial number

You will find the serial number located at the bottom of the unit.

The model number of this product may be found on the bottom of the unit; and the serial number on the label affixed to the bottom of the unit.

You should note the model and serial numbers of this unit in the space provided, and retain this booklet as a permanent record of your purchase to aid in identification in the event of theft.

MODEL NUMBER _____

SERIAL NUMBER _____

TECHNICAL SPECIFICATIONS

Type:	Electronic Tuning, di-pole indoor antenna
Frequency range:	88~108 MHz variable tuning
Relative gain:	-2 dB
Directivity:	"Figure 8" pattern
Half-power angle:	90 deg.
Output impedance:	75 Ω (coaxial terminal)
Standing-wave ratio:	1.2 or less
Power source:	DC 18 V. Two 9 V batteries (006p or equivalent) (optional)
Dimensions: (W×H×D)	428×162×113 mm (16-27/32"×6-3/8"×4-7/16")
Weight: (without batteries)	870 g (1.9 lbs.)

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