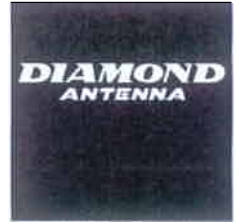


Amateur Radio Communication Antenna

21MHz High Performance Center Loading Mobile Antenna



HF15CL

Fold over whip element structure

Operation Instructions

To use the antenna properly, read these instructions thoroughly before using it. Keep this manual carefully at hand for later use.

HF15CL is for amateur use. Please transmit on the armature bands.

<<Warning>>

To avoid inviting accidents, please follow the following notices.

- ① Nuts and screws can be loosened by vibration during driving. Be sure to check those fastening devices from time to time and refasten if necessary.
- ② Strong impact can cause to break the antenna and may invite accidents by falling the element. It is recommended to drive away from those obstacles such as branches.
- ③ Strong vibrations caused by diesel engines may damage the antenna. It is recommended to install the antenna at the location where has least vibrations as possible.
- ④ Touching the antenna during transmission may cause to electrify. Be sure to confirm to see if there is no one around the antenna if transmission is taking place while the car is parked.
- ⑤ Don't drive a car with the antenna tilted. Driving the car with the antenna tilted may cause serious human accident.
- ⑥ To install the antenna, be sure to take those things such as local traffic regulations, and physical length of the car in account, and especially it has to be installed the location where is not easily reachable by people.
- ⑦ Adjust the antenna thoroughly on operating frequency before operation. Using unadjusted antenna may cause to damage transceiver.
- ⑧ If the thunder seems to rumbling the vicinity, do not touch the antenna and coaxial cable to avoid electrocuted by lightning.
- ⑨ Select strong enough place to install the antenna to avoid damaging the car body falling the antenna.

•Description

- ① Center loading type that is high performance is employed in the HF15CL (length: 2.2m mobile antenna).
- ② It is easy to adjust the frequency by changing the upper element.
- ③ Fold over whip element structure eliminates troublesome antenna detachment when the car is parked in your garage. Whip element section of the antenna can be tilted for desired direction by pull the element up and incline for any direction.

•Installation location

Since this antenna is designed to install on car body only, VSWR of the antenna may not be lowered when it is installed on the place where has different grounding condition such as on balcony railings.

•Parts number

The unit is consisted of the antenna following parts.

