

OPERATING MANUAL

D-130J Super Discone Antenna for Wideband Reception

DIAMOND
ANTENNA

The D-130J Super Discone Antenna is the first ultra-wideband antenna in the market which can cover amateur radio, air traffic control and other various utility frequency bands and, in addition, even some amateur radio frequency bands within the covering frequency range can be transmitted with this antenna alone. The D-130J is designed to be able to assemble very easily and can be built in a couple of hours by beginners. Rust free stainless steel is employed in major component parts to have the antenna rust resistant and durable. And its very compact and lightweight design enables it to be installed at any convenient place.

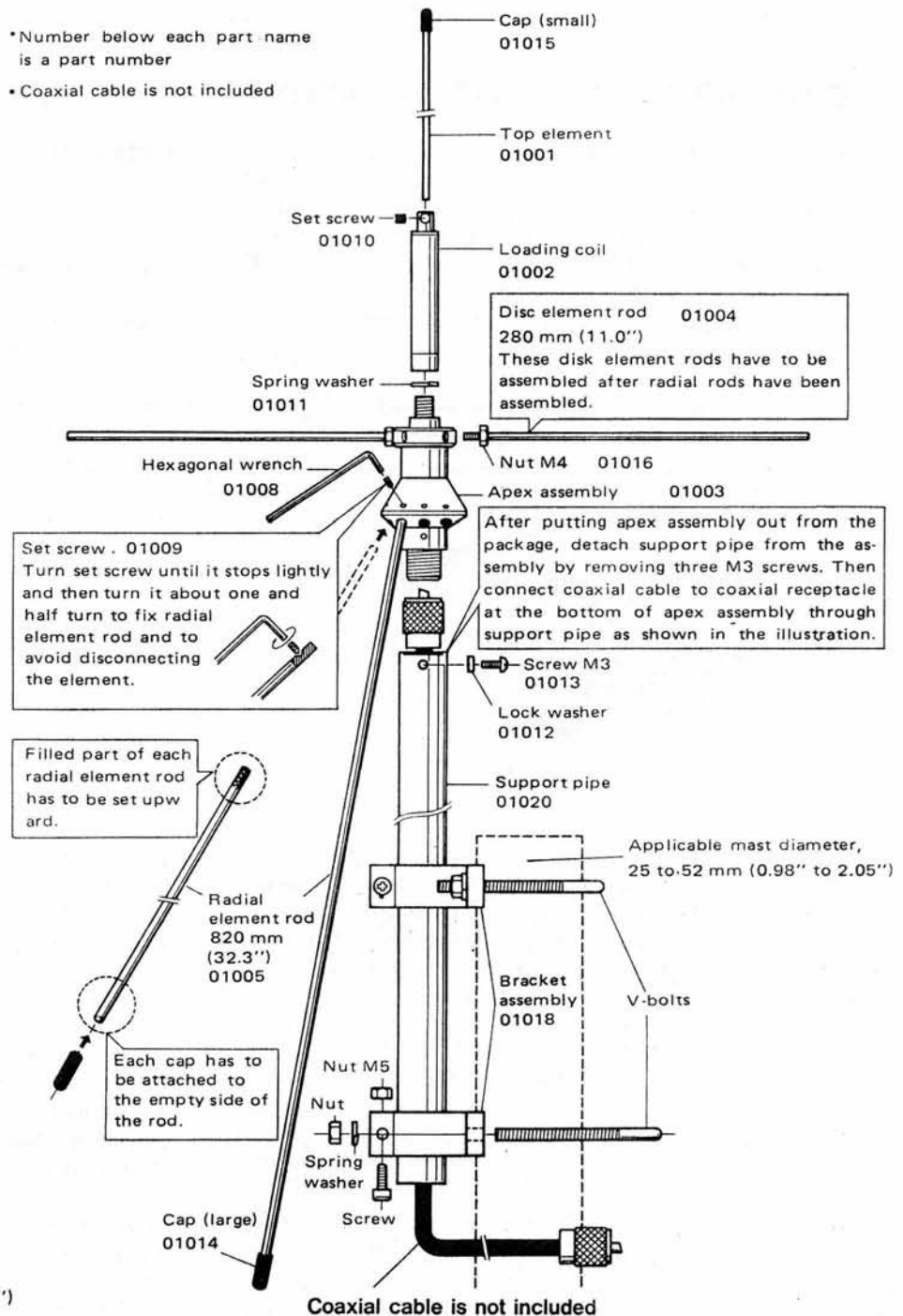
Description

1. Ultra-wideband design to be able to cover 25 to 1300 MHz.
2. Very compact and lightweight design enables the antenna to be installed on balcony railing at an apartment or condominium.
3. Rust resistant structure employing stainless steel in major component parts allows the antenna to be used at seaside environment.
4. 6 m, 2 m, 70 cm and 23 cm amateur frequency bands and 33 cm band (900 MHz) can be transmitted.
5. Very cost effective compared with similar antennas.
6. Since all radial rods are designed to have the same length, the D-130J is perfectly omnidirectional as original discone antenna and can receive radio propagation from any direction evenly.
7. The D-130J can be made further compact and lightweight by removing the top element assembly, if it doesn't require to receive lower end frequency range.

Specifications

Frequency range	25 to 1300 MHz for receiving (Amateur frequency bands and personal radio frequency band for transmitting)
Length	1.7 m (66.9")
Weight	1 kg (2.2 lbs.)
Max. diameter	0.41 m (16.1")
Mast diameter	25 to 52 mm (0.98" to 2.05")
Max. power	200 W at transmittable frequency bands
Type	Wideband omnidirectional discone antenna

Assembling the D-130J Super Discone Antenna



*Number below each part name is a part number

*Coaxial cable is not included

Disc element rod 01004
280 mm (11.0")
These disk element rods have to be assembled after radial rods have been assembled.

After putting apex assembly out from the package, detach support pipe from the assembly by removing three M3 screws. Then connect coaxial cable to coaxial receptacle at the bottom of apex assembly through support pipe as shown in the illustration.

Set screw 01009
Turn set screw until it stops lightly and then turn it about one and half turn to fix radial element rod and to avoid disconnecting the element.

Filled part of each radial element rod has to be set up ward.

Radial element rod
820 mm
(32.3")
01005

Each cap has to be attached to the empty side of the rod.

Applicable mast diameter,
25 to 52 mm (0.98" to 2.05")

Coaxial cable is not included