



Technical Support

TECHNICAL NOTE

Technical Note TN-789

TOPA-AN-301 Cutting Chart Update

4 September 2003

Applicability

This Technical Note applies to all TOPA-AN-301 66-88MHz antennas. Note: It does not apply to old TOPA-AN-301 73-88MHz antennas, which were sold in Australia and New Zealand only.

1. Introduction

Background

Through extensive testing of the TOPA-AN-301 antenna at a multitude of frequencies, a small anomaly in the existing cutting chart was discovered.

As a response to this, TEL has redesigned the cutting chart. This new cutting chart provides optimal performance for all frequencies.

Cutting Instructions

- For optimum performance, tune the antenna to the centre transmit frequency of the radio.
 - The optimum bandwidth is of the tuned frequency $\pm 7.5\%$.
 - Align the bottom of the antenna with a flat surface lying horizontally.
 - Mark the antenna at the length corresponding to the desired tuned frequency using a metric ruler (or other length measuring equipment).
 - Cut the antenna to the marked length.
 - Apply glue to the top of the antenna and fit the cap.
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- **See Cutting Table on next page.**

**Cutting
Instructions
(continued)**

Frequency (MHz)	Length (mm)
66	236.0
67	234.0
68	229.0
69	227.0
70	223.0
71	219.0
72	215.0
73	211.0
74	209.0
75	206.0
76	203.0
77	199.0
78	195.0
79	193.0
80	189.0
81	185.0
82	184.0
83	182.0
84	179.0
85	176.0
86	174.0
87	172.0
88	170.0

A diagrammatic version of the cutting chart is also available.
Download it from support.taitworld.com.

Compliance

None

CSO Instruction

CSO's – please inform all logistics, technical staff and dealers
of this cutting chart change.

2. Issuing Authority

**Name and Position
of Issuing Officer**

Tim Lummis
Technical Support Engineer

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