

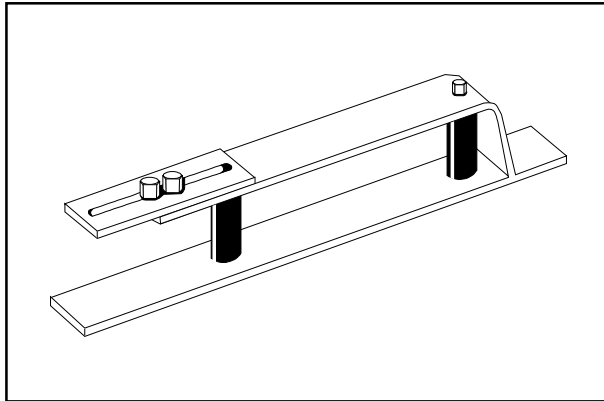
Installation

TLA160 Antenna Tuning Instructions

148 - 174 MHz

TUNED TO CHART

It is necessary to tune this antenna after installation. The tuning chart shown is only a rough guide. For best VSWR, it is advisable to fine tune the antenna (to minimum reverse power), after installation. See instructions below.

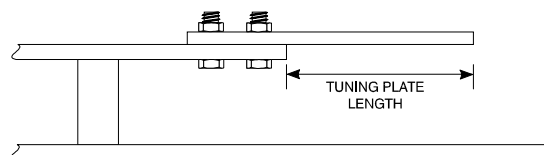
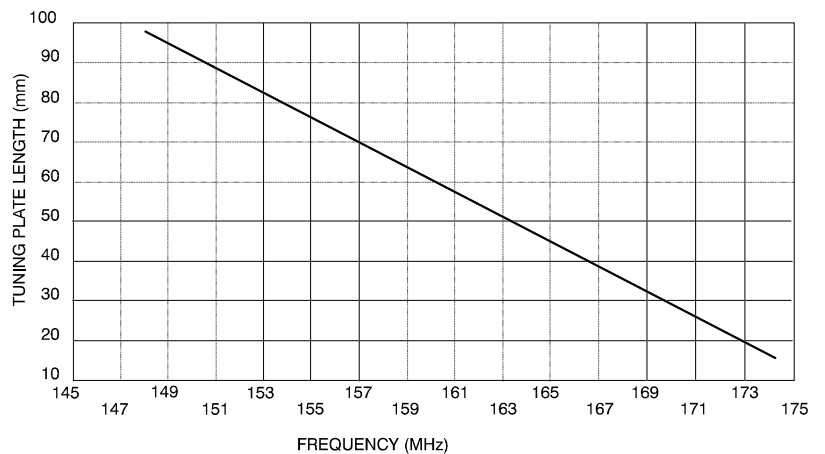


MOUNTING INSTRUCTIONS

1. Unwrap antenna and remove all packing tape.
2. Remove the gasket and place aside.
3. Locate exact mounting location and ensure that it is free of any metallic obstructions (mounting area should be flat).
4. Locate, mark and drill the connector access hole (25mm).
5. Place antenna connector centrally, into the connector hole, and using the antenna as a template, mark the location of the mounting holes.
6. Remove the antenna and drill the mounting holes (ensure sufficient clearance beneath mounting surface).
7. Fit rubber gasket, and then the mating connector (with feed cable attached) to the antenna, and locate the mated connectors into the connector hole.
8. Fit all of the mounting bolts and tighten evenly; **IMPORTANT** - ensure that the bolts have a positive connection to the metal mounting surface.

TUNING THE ANTENNA TO CHART

1. After installing the antenna, loosen the tuning screws (do not remove).
2. Slide the tuning plate to the dimension shown on the tuning chart and hand tighten the screws (note it is important that the tuning plate is parallel to the body of the antenna and not at an angle).
3. Move clear of the antenna, check forward power and note reverse power.
4. If reverse power is unacceptable, loosen screws slightly and slide plate forward one or two millimetres and hand tighten screws again. Move clear of the antenna and check reverse power.
5. If after step 4, a reduction in reverse power is noted, then repeat step 4 until a satisfactory reverse power is obtained. If an increase in reverse power is experienced then proceed to move the tuning plate in the opposite direction one millimetre at a time until a satisfactory reverse power is obtained.
6. Tighten tuning screws with a spanner, and check match again. If a shift is experienced, then repeat steps 3, 4 and 5 until the tuning plate is locked and a suitable reverse power is obtained.



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