

TELEX.

TELEX COMMUNICATIONS, INC.

8601 East Cornhusker Highway, P.O. Box 5579, Lincoln NE 68505

94279
UHF Log Periodic Antenna

Order No. 71147000

802573

INSTRUCTION MANUAL

General Description

The ALP-450 is a broadband directional log periodic antenna. It will receive any frequency from 450 to 900 MHz. The "gain" of this antenna enables it to receive signals from a greater distance than a typical "whip" type antenna.

Log Periodic Antennas are also directional (like a TV antenna) and will have the best reception when pointed at the transmitter. This yields the benefit of less interference from unwanted signals coming from the back or side of the antenna.

SPECIFICATIONS (average)

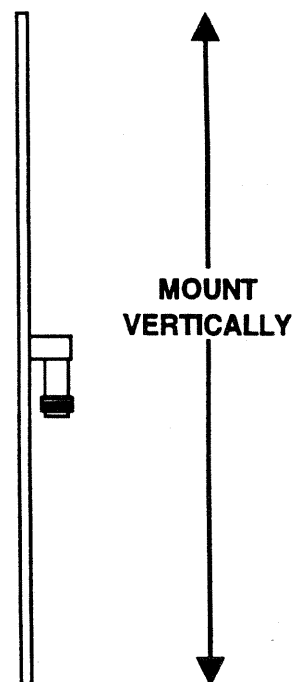
Gain.....	4.6 dBd
1/2 Power Beam Width.....	120°
Front-to-Back Ratio	19.4 dB
SWR.....	1.5:1
Input Impedance.....	50 ohm
Input Connector.....	TNC

Antenna Placement

The ALP-450 should be placed in a position that has a clear view of the transmitter(s) for best results. Obstructions such as walls, ceilings, and metal objects will reduce range and performance.

Antenna Mounting

The ALP-450 is supplied with a variety of mounting hardware. It should always be mounted vertically with the arrows pointing toward the transmitter(s). See Figure 1.



END VIEW
Figure 1

Microphone Stand Adaptor

Attach the microphone stand adaptor using the screws and spacers supplied with it. See Figure 2.

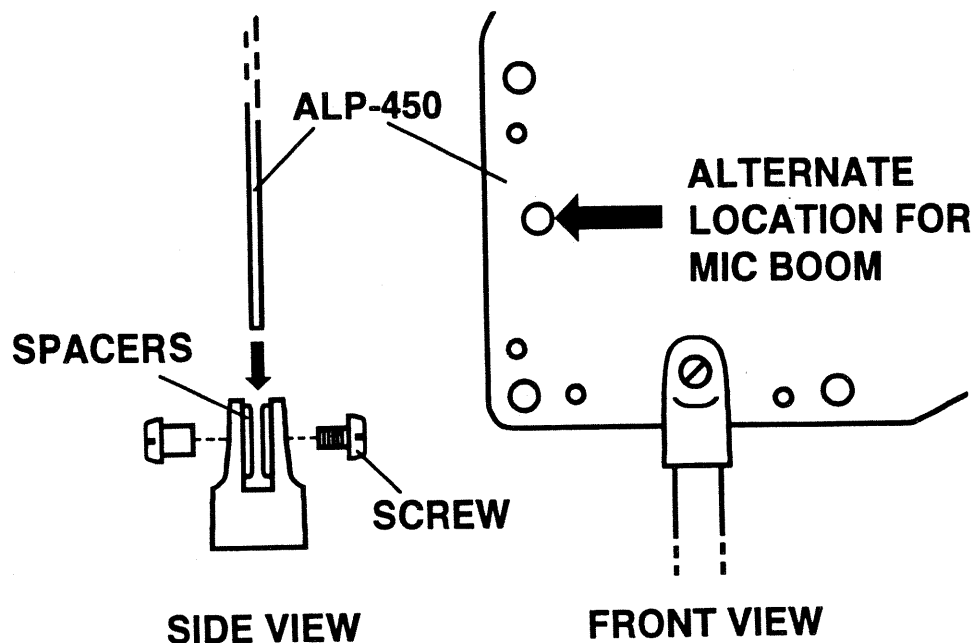


Figure 2
Microphone Stand Adaptor

Angle Bracket

Attach the angle bracket using the nuts, lockwashers, and screws supplied with it. Self tapping screws are supplied for securing the bracket to wood, metal, or other surfaces. See Figure 3.

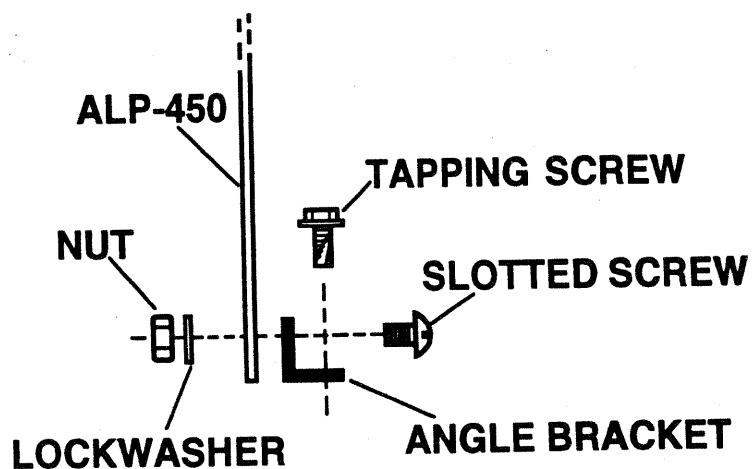


Figure 3
Angle Bracket

Clamps

Clamps are provided for mounting the ALP-450 on pipes, scaffolds, tree limbs, etc.. Attach the clamps with the hardware supplied. See Figure 4.

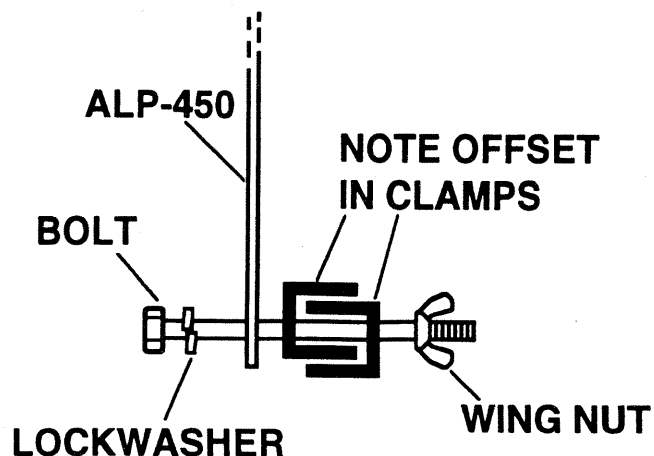
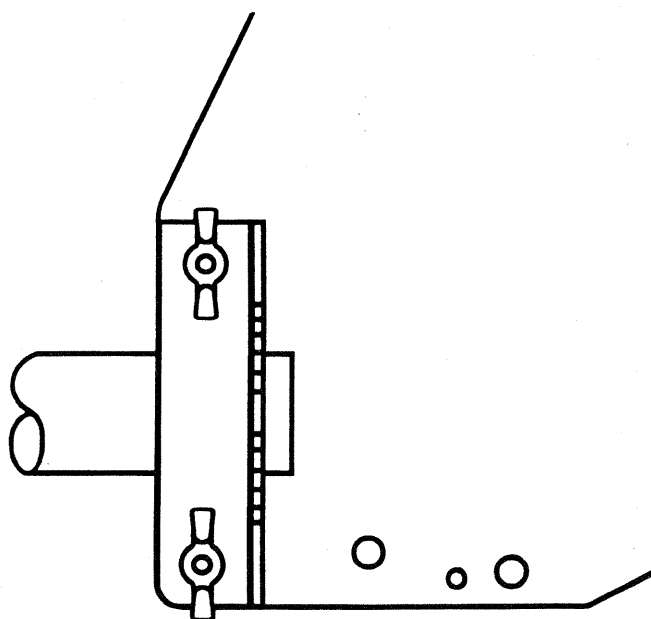


Figure 4
Clamps

Do not clamp the antenna to horizontal metal objects that extend past the clamp. See Figure 5. This will detune the antenna and cause loss of range and performance.



GOOD

Figure 5
Clamp Mounting



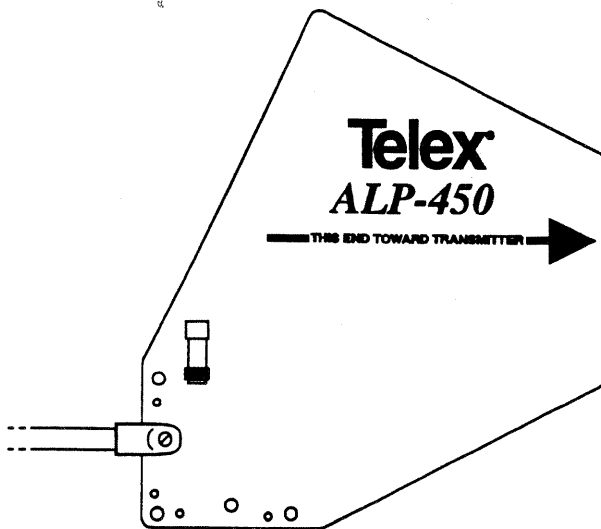
BAD

Coax Cable

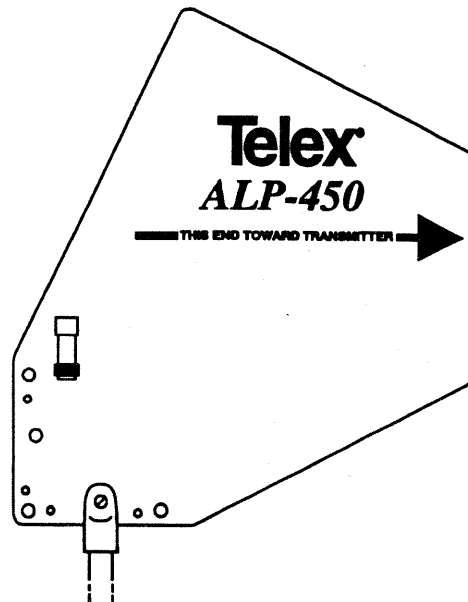
For best results, it is recommended that cable losses be kept under 4 dB. (Every 3 dB of signal loss results in a system operating distance reduction of 25%).

See the accessories section of this manual for special low loss cable assemblies.

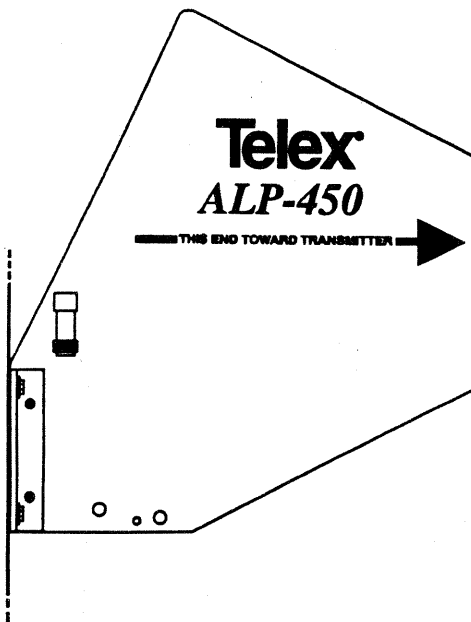
MOUNTING SUGGESTIONS



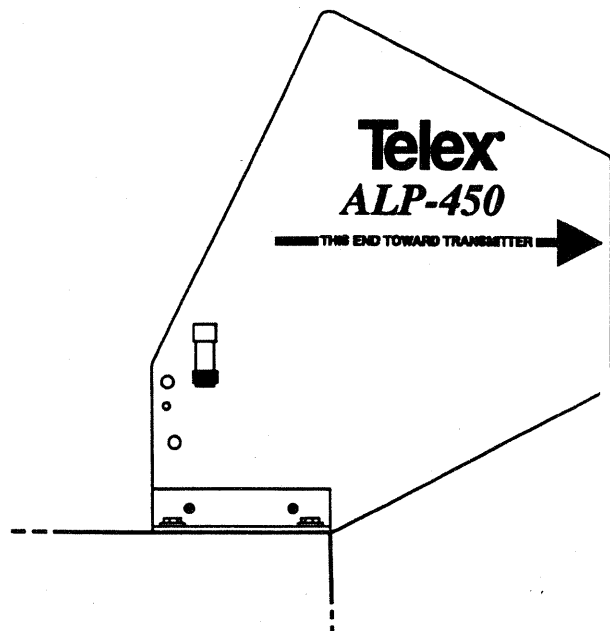
Mic Boom



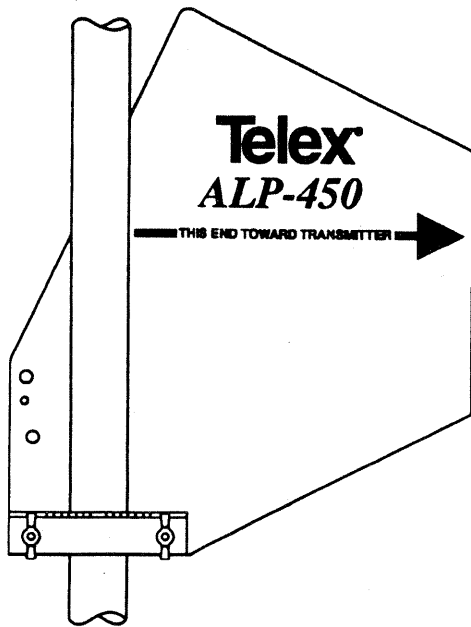
Mic Stand



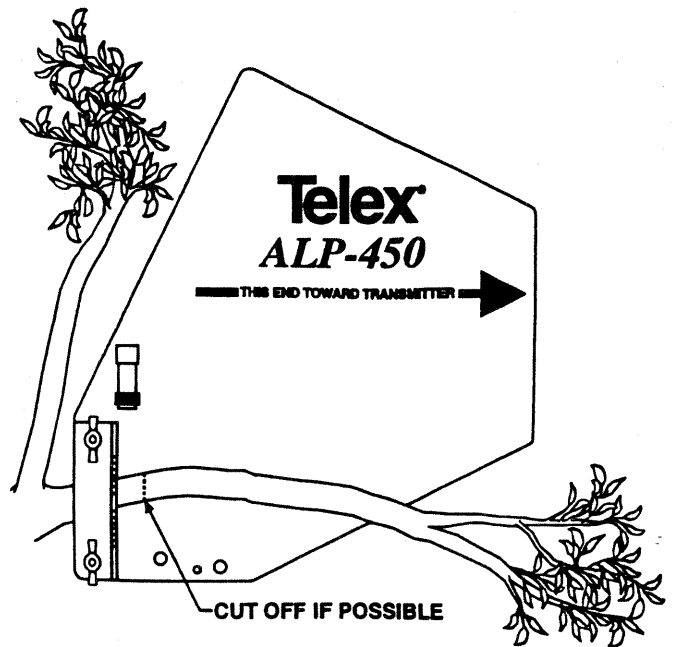
Wall



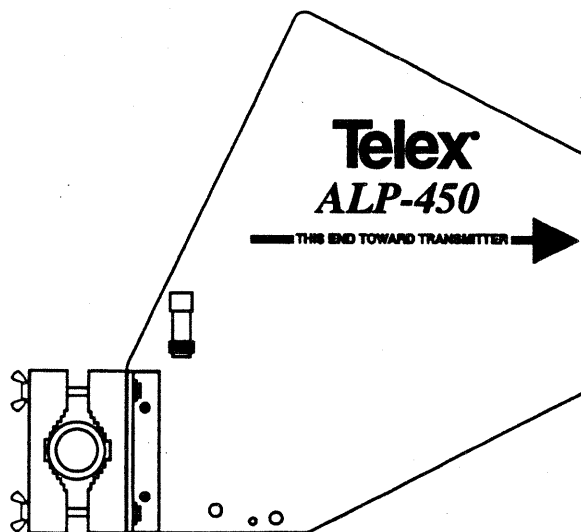
Top Surface



Pipe or Scaffold



Tree Limb



**Combination:
Bracket with Clamps**

ACCESSORIES

Special Low Loss Antenna Cables with TNC Connects

Length	Part No.
10 Ft. (3 meters)	690419
25 Ft. (7.6 meters)	71151-029
50 Ft. (15 meters)	71151-050
75 Ft. (23 meters)	71151-075
100 Ft. (30 meters)	71151-100

LIMITED WARRANTY FOR ANTENNAS AND ANTENNA ACCESSORIES

TELEX COMMUNICATIONS, INC. warrants for a period of 2 years from the date of purchase by the original consumer all products manufactured by it to be free, under normal use and service, from defects in materials and workmanship and to promptly, without charge, repair or replace the product at our option when it is returned with proof of purchase to our TELEX Warranty Service Center, postage prepaid, during the 2 year period and our examination of the product discloses the defect to be the fault of our manufacture. Warranty Valid only in U.S.A.

All claims of defect or shortage should be sent postage prepaid to:

TELEX Warranty Service Center, Dept. 623
TELEX COMMUNICATIONS, INC.
8601 East Cornhusker Highway
P.O. Box 5579
Lincoln, Nebraska 68505-5579 U.S.A./phone: (402) 487-5321

This warranty shall not apply to any product which has been repaired or altered in any manner by anyone other than our TELEX Warranty Service Center or products which have been subject of misuse, negligence, accident, or which have been connected, installed, used or otherwise adjusted other than in accordance with written instructions furnished by TELEX.

The above 2 year warranty period shall not be extended beyond its original term with respect to any part or parts repaired or replaced by TELEX. No person, including any dealer, agent, distributor, or representative of TELEX is authorized to assume for TELEX any obligation or liability other than is expressly stated herein.

TELEX DOES NOT ASSUME ANY LIABILITY FOR INCIDENTAL, SPECIAL AND/OR CONSEQUENTIAL DAMAGES OF ANY KIND WHATSOEVER, AND IN ANY EVENT, OUR LIABILITY SHALL IN NO CASE EXCEED THE ORIGINAL PURCHASE PRICE OF THE PRODUCT.

IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS, ARE EXPRESSLY LIMITED IN DURATION TO THE 2 YEAR WARRANTY PERIOD SPECIFIED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

02/16/90

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