

SECTION ONE

Antenna Assembly and installation



Antenna Assembly

- 1) Unpack and assemble antenna per instructions supplied with antenna.

Assemble elements to mast, being careful to match colors



Antenna Installation

- 3) Before mounting antenna, use Figure 1 and a compass to identify the approximate direction from your location to the transmitter site (the Cherokee Power Plant near Commerce City).

CAUTION: antenna installation should be performed by an electrician or qualified radio technician. Keep antenna away from metal objects and power lines.

(See pictures in following pages for details)

- 4) Mount antenna on 1 ½” to 2 ½” pipe mast, at least 10 feet above ground level. (Keep antenna away for metal objects and power lines.) Aim antenna toward transmitter site.
- 5) Connect 50 foot coaxial cable to the antenna connector. Waterproof the connection by wrapping with electrical tape.

**Use this map to estimate compass heading
For alignment of your receiver antenna to point
At the Cherokee Power Plant transmitter site**

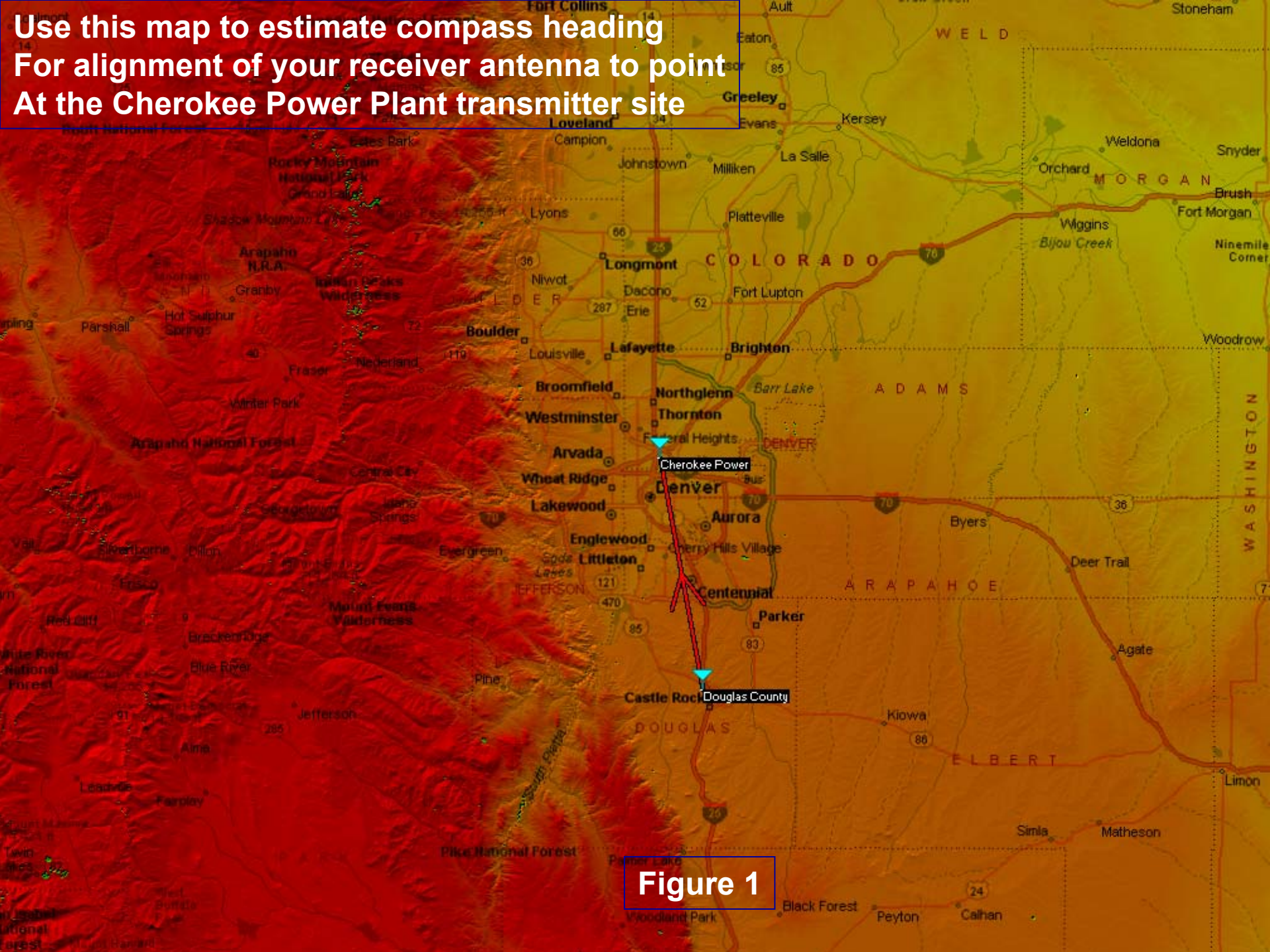


Figure 1

Attach antenna to mast

Mounting bracket



Attach mounting bracket to customer - provided 1 ½" to 2 ½" vertical pipe mast using large U-bolts



Attach antenna mast to mounting Bracket with smaller U-bolts provided

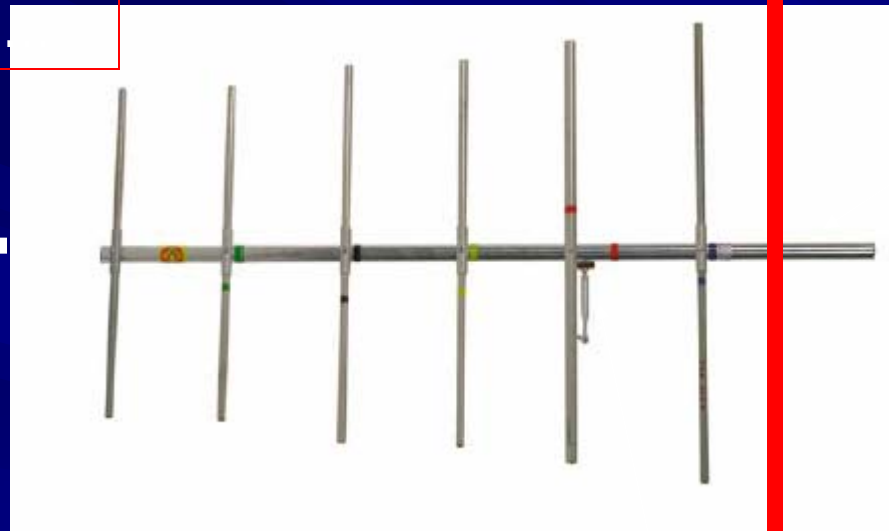
Antenna Alignment

Antenna is directional.

Aim in direction of
arrow as shown.

Vertical pipe mast

Antenna
Mast



“gamma” Matching element

Install antenna with this pointed
downward – as shown

Remove coaxial cables and lightning arrestor from boxes.



Connect coaxial cable to antenna



- a) Attach cable to antenna
- b) Tighten connector
- c) Wrap connection with Weather-proof tape* to protect from moisture

*such as 3M product Scotch 70
Silicone rubber tape

Antenna Installation

- 6) Route coaxial cable to radio unit. Seal any openings in the building walls or roof with caulk or other sealant.
- 7) Install lightning arrestor on other end of 50 foot coaxial cable. See picture.
- 8) Connect ground wire from AC outlet ground to lightning arrestor.
- 9) Attach 3-foot jumper cable to lightning arrestor “equipment” connector

Note markings for Proper connection Of coaxial cables when installing lightning arrestor

Antenna cable
connection

Connect 3 foot
Jumper cable
to radio here

