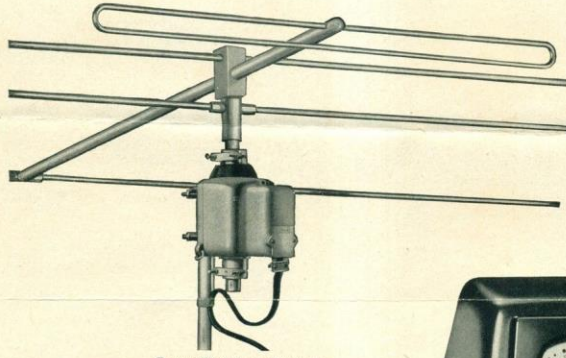


ALLIANCE DIRECTION INDICATING TENNA-ROTOR

For peak TV, FM, and all high frequency radio reception and transmission, a highly directional beam antenna is used. The Alliance Direction Indicating tenna-rotor rotates the antenna for peak performance to all points of the compass, indicating the direction of the antenna, right at the radio.

The Alliance Direction Indicating tenna-rotor consists of a low voltage, electrically powered rotator with a special direction indicating element in which the antenna mast to be rotated is mounted. The rotator is connected to an indicating control case located at the receiving set. This control case, plugged into the 110 volt, 60 cycle, house line, provides low voltage power for the rotator, controls it, and indicates direction.



*Typical TV Antenna Installation
with tenna-rotor*



— Control Case —

INSTALLING THE ALLIANCE TENNA-ROTOR

THE TENNA-ROTOR MUST BE PUT UP WITH THE ANTENNA DIRECTED NORTH. It is shipped from our plant against its full scale north stop. The order of operations of cable connection, antenna mounting, and tenna-rotor mounting is unimportant.

TO HOOKUP TENNA-ROTOR

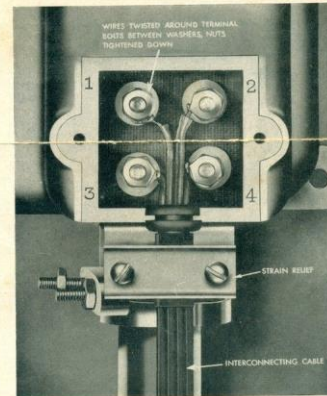
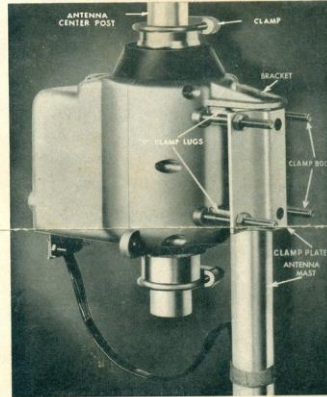
Push the cable thru the grommet and strip the ends of the four conductor wires. Both ends of all conductors must be tinned to insure good electrical connections. Put the grommet in the slot in the terminal box. Wrap the wires around terminal bolts 1-2-3-4. Use the brass washers provided and tighten all nuts. Caution: Observe the exact location of the terminals. You must know exactly where each wire is connected. Screw down cover, using the gasket. The cable should lie against the strain relief plate and be insulated with friction tape before the strain relief plate is mounted. IMPROPER WIRING WILL DAMAGE METER.

MOUNTING ANTENNA and TENNA-ROTOR

Mount the antenna as close to the tenna-rotor as possible. Cut the antenna center mast to allow a 12" length for inserting into the tenna-rotor. Insert this 12" length in the hollow shaft of the tenna-rotor. Clamp with the two die cast clamps and stainless steel U-bolts. Tighten nuts securely. To prevent collapse of thin wall tubing used for center post or mast, fit tubing with a solid rod. On the cast housing are 4 bolts and a clamp plate. The antenna mast is slipped between this plate and the tenna-rotor housing until its end rests against the bottom of the cast bracket. The nuts are now drawn down securely against the clamp plate. DO NOT TAMPER WITH THE SLOTTED SET SCREW IN THE DIE CAST HOUSING.

CABLE HOOKUP

The cable to the tenna-rotor should be lapped back and fastened to the mast at six foot intervals to prevent chafing and swaying by wind. Slack must be allowed in the antenna lead-in between the rotatable antenna and its lead-in support to prevent breakage. Cut the tenna-rotor cable to length, insert thru the slot in the rear of the control case, and strip the connections. Connect the exact wire, which was hooked to terminal No. 1 of the tenna-rotor to terminal No. 1 of the control case. Hook up terminals 2-3 and 4 in the same way. Plug in the power cord. Push the control lever to the right. The tenna-rotor should be against its stop and read approximately full scale. Reverse the lever and back away from the stop. Now adjust for full scale deflection on the meter by turning the small adjustment screw through the bottom of the tenna-rotor control case until the meter reads exactly at north, just as the tenna-rotor reaches its stop. This is the full scale end dot. On hitting its stop, the reading increases suddenly. This is a false reading.



LIGHTNING PROTECTION

For an approved installation of this equipment, it is recommended that the two outside wires of the four conductor cable, which connects between the control box and the tenna-rotor on the mast, be grounded through an Underwriters' Laboratories approved lightning arrester. The arrester should be located close to the point of entry of the four wire cable to the building and it can be either inside or outside the building.

The Alliance Mfg. Company
Alliance, Ohio

STANDARD WARRANTY

Adopted and Recommended by the Radio Manufacturers Association

The Alliance Manufacturing Company warrants each new radio product manufactured by it to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part in exchange for any part of any unit of its manufacture which under normal installation, use and service discloses such defect, provided the unit is delivered by the owner to us or to our authorized radio dealer or wholesaler from whom purchased, intact, for our examination, with all transportation charges prepaid to our factory, within ninety days from the date of sale to original purchaser and provided that such examination discloses in our judgment that it is thus defective.

This warranty does not extend to any of our radio products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, or to use in violation of instructions furnished by us, nor extend to units which have been repaired or altered outside of our factory, nor to cases where the serial number thereof has been removed, defaced or changed, nor to accessories used therewith not of our own manufacture.

Any part of a unit approved for remedy or exchange hereunder will be remedied or exchanged by the authorized radio dealer or wholesaler without charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our radio products.

THE ALLIANCE MANUFACTURING COMPANY
ALLIANCE, OHIO

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