

OUTSTANDING FEATURES:

The KR-500 is an elevation rotator specifically designed for 180 degree vertical rotation of communication antennas.

- The KR-500 utilized heavy duty construction throughout for use with more than one antenna (stacked array).
- The KR-500 housing is of high tolerance diecast, non-corrosive aluminum combined with all stainless steel hardware.
- The KR-500 features a waterproof terminal block on the rotator
- The KR-500 control box circuitly ication. regulated for high accuracy direction indis voltage
- The KR-500 motor disc brake holds up to 2000Kg per centi-meter (1750 lbs/inch).
- * The KR-500has been designed for low maintenance easy repair.

SPECIFICATIONS:

Power requirement: Motor voltage: Rotation time: Power consumption:

> 30VA. AC 117/220 volts 50/60Hz.

Stopper:

180 degree mechanical pin 61 sec at 60Hz/180 degree. 74 sec at 50Hz/180 degree 24 volts AC.

Rotation torque:

per inch, (motor disc type). 400Kg/centi-meter, (350 lbs stopper.

Brake:

Accuracy: Mounting:

+ 3 per cent. 32-43mm (14"-1.5/8") for boom. 38-63mm (1%"-2%") for mast.

lbs per inch).

2000Kg/centi-meter, (1750-

Recommendable cable: 6 conductors cable, #22 AWG or larger.

Weight:

5.5Kg (12.1 lbs) complete in carton. 1.7Kg(3.74 lbs) controller 3.3Kg(7.26 lbs)rotor unit.

UNPACKING: ------

the carton, Note any shortages Be sure to check each item as it is unpacked from

- Control box with AC cord
- Elevation rotor unit.
- Plastic bag with hardware

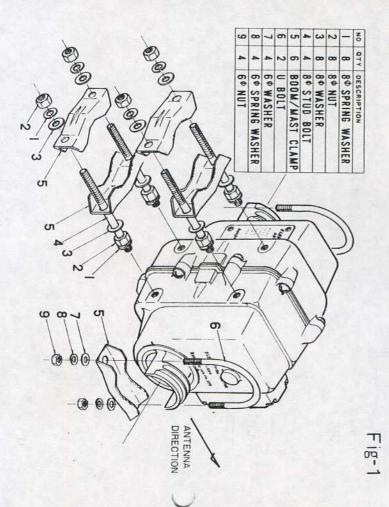
purchased for return to authorization, the problem to the dealer where the unit has occured, In case of damage or shortage report Inspect all items to insure no shipping damages (see-

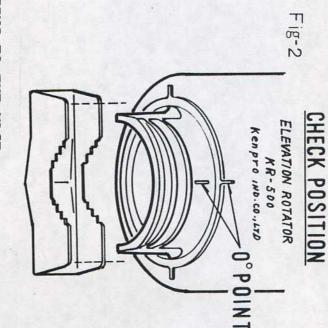
SET UP AND CHECKOUT:

See Figure # 1 showing the position of the mast clamps. Make sure all four (4) mast mounting studs are fully threaded into the housing.

See Figure # 2 for the installation and adjustment of the boom clamps.

Check the control box reading after the power cable is hooked up. The reading should be "0" when the array is pointing vertical. The reading can be adjusted slightly with the potentiometer on the rear of the control unit. The rotor is adjusted at the factory to the "0" position.





MOUNTING TO THE MAST:

The KR-500 can be mounted to a short section of mast prior to installation on a tower. The main support boom may also be installed through the rotor.

It is recommended that the boom be equal weight on either side of the rotor. When installing the antennas on the boom, Be sure the weight is evenly distributed in front and rear of the rotor for proper balance. If front mounting of the antennas is desired, counter balance weights should be added behind the boom to equalize the weight distribution.

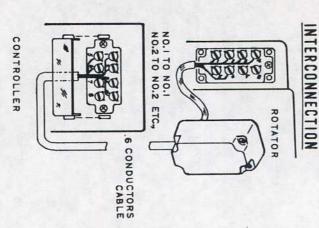
To check for proper antenna position, rotate the array through the entire 180 degree range. It is recommended that the entire installation be assembled and tested at ground level whenever possible.

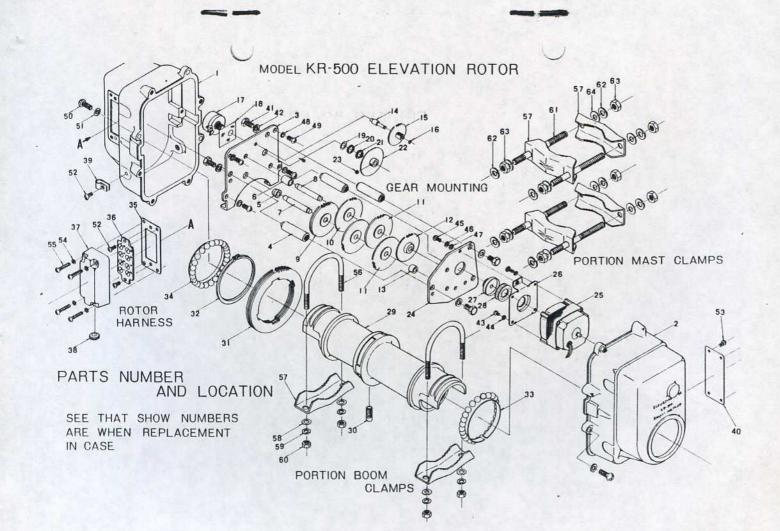
ground level. wiring to antennas the feed the be lines from the the rotor control recommended complete at cable and

of the rotor with no cable stress lete 180 degree rotation slack left to allow compto the boom on either side Feed lines should be taped and enough

around degree rotation. Adequate slack lines should be elevation cable and rotator for the Azimuth rotor (KRthe allowed hor1feed both

Feed the control cable through the rubber grommet terminal cover plate. #1 to #1, #2 to #2 etc, to #6, next replace the Now attach the 6 wire cable to the control to the terminals according to the wiring diagram. in the terminal cover plate and attach the wires





of the front panel. return to the "STOP" position, If adjusted through the small Turn the power switch "OFF" hole and not the meter should T'n this the middle can be

approximately "0"degrees. Calibration to

The meter will lighted and the meter should read

in AC cord. Depress the power switch to "ON"

cable connections, then

adjusting the potentiometer on the rear

Of

"0" by

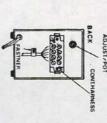
control box.

Adjust rear potentiometer if necessary. Turn the unit back on and recheck for "O bosition.

CONTROLLER SET

OWER.SW

CAUTION:



objects, damage to insufficient sure the antenna array is clear of interfering clearance the antenna can occure if there in all possible antenna

positions 50 Kg RECOMMENDED CONSTRUCTION FORMS ONLY FOR NOT | RECOMMENDED

CALIBRATION/OPERATION:

Double

check the control

mmended by us. used with accessories not manufactured or recohas been removed, defaced, or changed, nor to units department, nor in cases where the serial number have been repaired or altered out side our service accident, interconnect wiring, improper instalantenna rotor has been subjected to misuse neglect furnished by us, nor does it extend to units which lation or to use in violation of the instructions This warranty does not extend if model KR-500

ELECTRONICS CO., LTD. without charge to owner. change hereunder will be handled by TOYOMURA-Any part of a unit approved for repair or ex

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

-500 antenna rotor.

factured products.

stall such improvements in its previously manuit may deem desireable without obligation to into make any improvements to its products TOYOMURA ELECTRONICS CO., LTD. reserves the right which Assmb tube gear. · TE Stopper stud pin. 30. Boom shaft tube. .62 Disc pad. .82 Disc brake/pinion motor gear. · 12 Motor mount plate. .92 Mast clamp stud bolts. · T9 . 25 Clamps. . 72 AC 24 volt motor. Gear/motor mount plate. . 42 .99 "U" bolts. Gear stopper screw. 23. Terminal cover screws. · \$5'SS Pot devider gear. 55. Terminal/cable holder scres. .22 18. Insulator sheet. Housing screws. 'TS'0S 48,49. Housing mount screws. Potentiometer. ·LT Plastic pot gear. ·ST 45,46,47. Motor holder screws. Gear pot shaft. · PT Motor mount screws. 43,44. Gear mount screws. 4T'45° Plastic motor gear. 12. Internal gear. 'TT'OT Name plate. *0ħ Assmb gear. • 6 Cable holder. .95 .8'L Gear shaft. Rubber grommet. .85 Stud support sleeve. • 9 Terminal cover. ·LE .98 Gear stud sleeve. • 9 Terminal. .25 · Þ Rubber terminal sheet. Gear mount supportor.

33,34.

35.

Ball bearing holder.

"C" ring.

. 5

Gear mount plate.

Rotor housing.