

AMATEUR TECHNICAL DATA and CATALOG

**ANTENNAS
and
SYSTEMS**

**TOWERS
and Rotated
Tubular Masts**

ve2eh april 1985

telrex

broad-band
"BALUNS"
and Antenna
Components

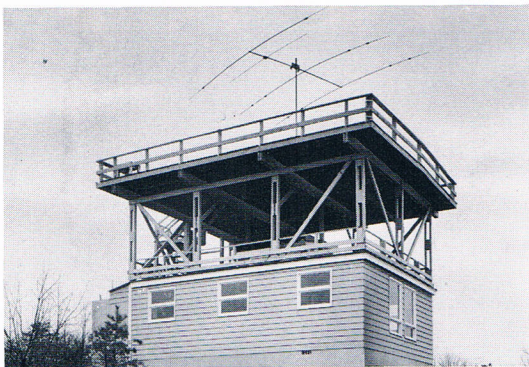
**ROTATION
and Indicator
SYSTEMS**

The Skill to Design...

The Facilities to Produce...

The Ability to Deliver...

TELREX LABORATORIES, ASBURY PARK, NEW JERSEY



The Telrex "Skytop" Laboratory is Completely Equipped for Development Work.

IN ORDER TO SELL A QUALITY PRODUCT CAPABLE OF WITHSTANDING THE WINDS, ICING, AND MOISTURE SO PREVALENT THROUGHOUT THE WORLD, TELREX HAS BEEN FORCED TO GO FACTORY DIRECT. THE FACT IS THAT A QUALITY AMATEUR RADIO ANTENNA MANUFACTURER CANNOT AFFORD TO PROVIDE DISTRIBUTORS WITH THE NECESSARY 50 TO 60 PERCENT DISCOUNT AND REMAIN VIABLE.

Telrex Laboratories is ideally located along the North New Jersey Coast where it maintains three major coordinated units so necessary for the research and development of antennas and allied components. The heart of this operation is the main plant consisting of two major buildings that house all design and production facilities and a centralized laboratory, known as Laboratory No. 1. Laboratories No. 2 and No. 3 are situated away from the main plant forming a triangulated situated system for testing, measuring, field and "air" performance, stress, strain and weathering studies.

All facilities are fully equipped and constantly augmented with the latest systems and equipment required for progressive improvement to make development more practical.

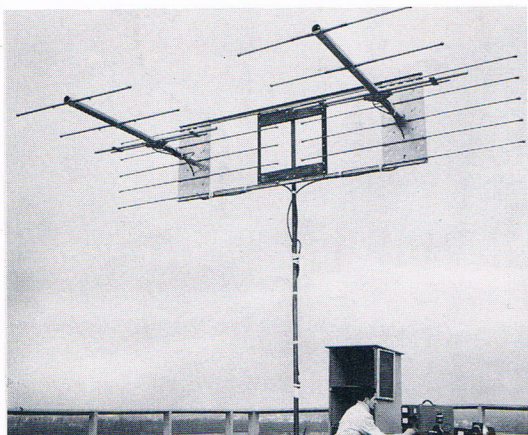
STEP UP TO TELREX
Professionally Engineered Antenna Systems
"BEAMED-POWER" -- "BALANCED-PATTERN" -- ARRAYS
LABORATORY TUNED, MATCHED, & CALIBRATED TO ASSURE PROPER AND EXACT ASSEMBLY
ALL "BALUN" FED TELREX ARRAYS ARE "BALUN" SUPPLIED

The loose-leaf data sheets, contained herein, illustrate a few of the more popular Telrex Antennas and equipment. The Telrex record of supplying the communication needs of leading firms and agencies, and propagation laboratories, for over four decades attests to the high regard and esteem enjoyed by Telrex, the company where performance, quality, and service are paramount.

All antennas, even multi-element arrays as low as 2 mhz are developed full-size at frequency (not from high frequency models) at our specially designed antenna laboratory building, situated on a noise-free non-contaminated site. Specially designed hydraulic lifting rotatable masts and other special devices, plus near and far-field target ranges, make our antenna evaluations thorough, practical, and authentic. This full-size antenna development work makes possible the extra performance, perfect match and calibrated accuracy of TELREX Arrays.



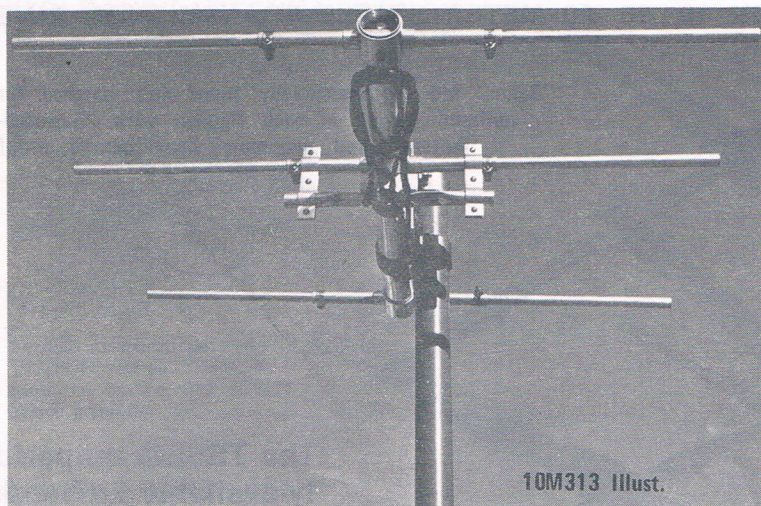
Why not contact Telrex Engineering with your next requirement? Your problem and needs will be a welcome challenge to us. We feel sure that you will find TELREX suggestions and equipment practical and to the point.



"Checking Out" a Communication Custom Array Built by Telrex for Armed Forces Use in Alaska

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TELREX 10 METER "MONARCH" ARRAYS

Optimum spaced for optimum results.
"Balun" fed for Balanced Pattern

Telrex 10 Meter "Balun" fed "Monarch" Arrays are professionally engineered, custom machined, then precision tuned, matched and calibrated for easy fool-proof assembly at your site, to our specifications - when mounted in the clear a minimum of 36 ft. above ground.

Telrex 10 Meter Arrays employ state of the art materials including micarta insulation, heavy-wall taper swaged reinforced thru boom dural element, and extra heavy wall sectional and specially reinforced aluminum boom, with boom struts and turn buckles, stainless steel electrical hardware and an exclusive custom designed heavy-duty cadmium plated steel tilttable, gusset plate mounting.

Note: Telrex Models 10M313 and 10M523 do not employ boom struts.

Figure 1. Illustrating a 10 Meter Element driven thru the boom and reinforced with an outer sleeve. The heavy wall large diameter boom is also reinforced to create a rugged element captivation at the area of greatest stress.

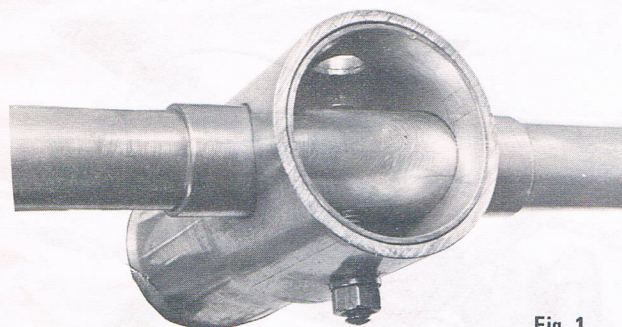


Fig. 1

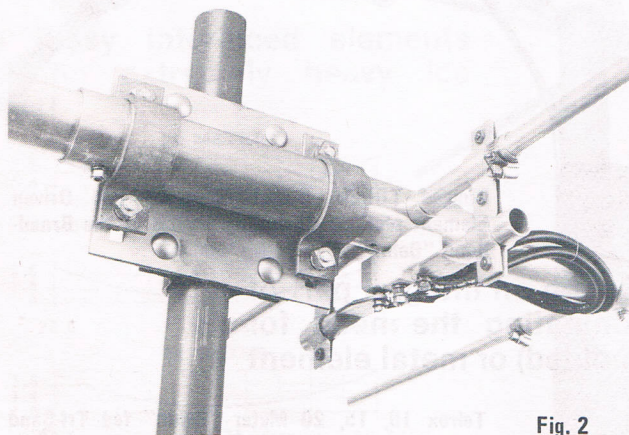
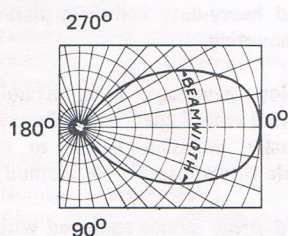


Fig. 2

Figure No. 1 Illustrating a heavy duty gusset mounting plate with gusset straps, Driven Element Assembly (T-Matched) and coaxial "Balun"

Ruggedizing the gusset mounting assembly provides a secure trouble free boom to mast mounting arrangement which disperses stress throughout a greater surface area.

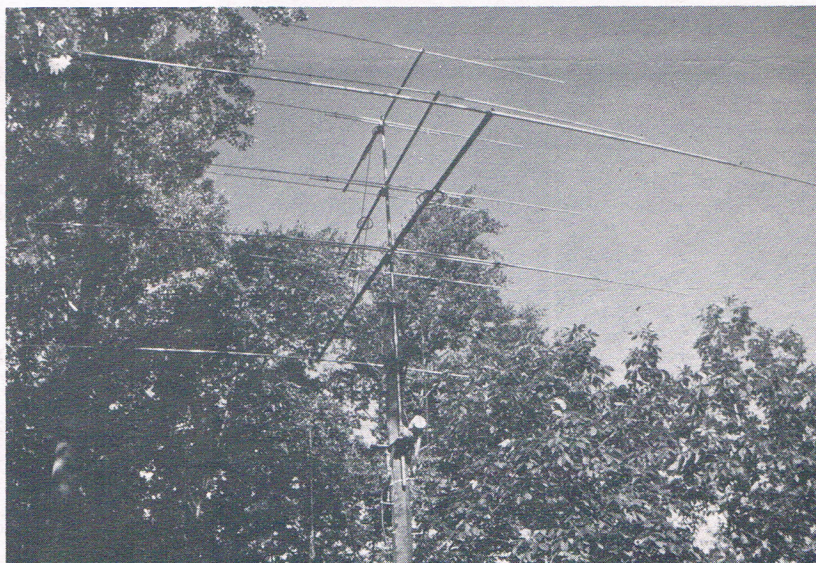
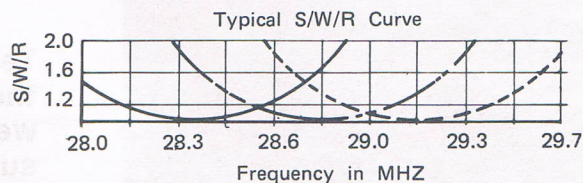


Typical pattern configuration when a 10 Meter Array is mounted in the clear, at 18 ft. above ground. Half power beamwidth illustrated is 60°.

ELECTRICAL	10M313	10M523	10M636
Gain in DB reference 1/2 wave dipole	10 dbd	13 dbd	14.6 dbd
F/B Ratio	24 db	24 db	24 db
V/S/W/R at Resonant Point	1.2/1	1.2/1	1.2/1
Impedance Bandwidth (2/1 VSWR)	3%	3%	3%
Maximum Power Input	2 KWP	3 KWP	8 KWP
Nominal Input Impedance	52 ohm	52 ohm	52 ohm
Beamwidth to 1/2 power point	58°	48°	44°
Number of Elements	3	5	6

MECHANICAL

Alum. Boom: Diameter and approx. length	2.5,2"x14'	3.5,3"x23'	3.5,3"x36'
Longest Element Length (approx.)	18'-0"	18'-0"	18'-0"
Turning Radius (approx.)	12'-0"	17'-0"	20'-0"
Wind Surface Area (approx.)	2.8 sq. ft.	4.5 sq. ft.	6.0 sq. ft.
Wind Load at 100 mph (approx.)	82 lbs.	138 lbs.	170 lbs.
Net Weight (approx.)	21.5 lbs.	64 lbs.	85 lbs.
Approx shipping weight (domestic pack)	28 lbs.	81 lbs.	127 lbs.



Telrex 10, 15, 20 Meter 3 element Array Utility-Pole Installation. "Looks good in any neighborhood!"

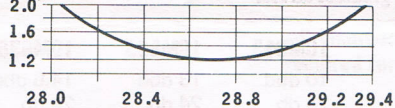
Please Note! All Telrex 10 Meter Arrays are "Balun" fed for "Balanced-Pattern" and maximum Signal to Noise, Signal to Interference Ratio!

No Errector-Set haphazard assembly with a Telrex antenna!

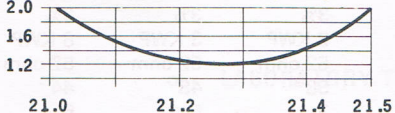
"Balun" fed - Professionally tuned and matched for optimum results at each element with "Balanced-Pattern" and maximum signal-to-noise ratio!

The TB6EM outperforms any available Tri-band with considerable margin

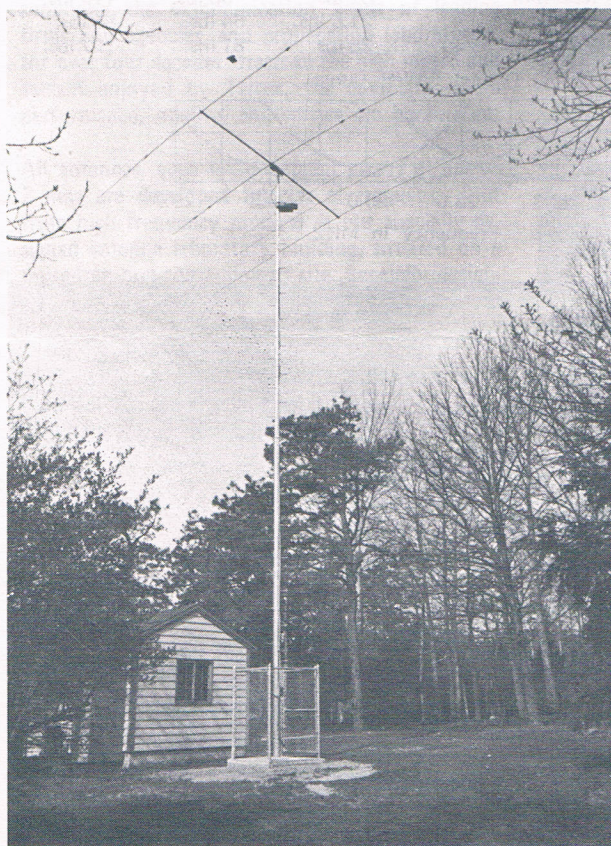
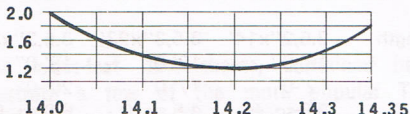
Typical V/S/W/R vs Frequency 10M



Typical V/S/W/R vs Frequency 15M



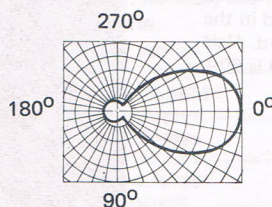
Typical V/S/W/R vs Frequency 20M



Mr. Bowman Graton, A.I.A. - K1KHC - Duxbury, Mass.
Sez: "Beautiful - and works" - Better than it looks!



High impact Epoxy encapsulated traps mounted to rugged taper swaged Driven Element.



Typical measured pattern and V/S/W/R when TB5EM is mounted in the clear, 34 ft. above the ground.

Rugged TB5EM Gusset Mounting and Driven Element sections. Including a view of the Broad-Band "Balun".

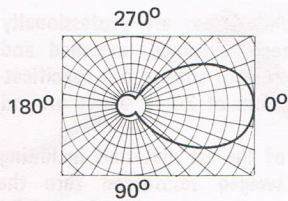
Telrex elements are an integral part of the boom, eliminating the need for weak plastic (molded) or metal element supports.

Telrex 10, 15, 20 Meter "Balun" fed Tri-Band Arrays are professionally engineered, custom machined, and precision tuned, matched and calibrated for easy fool-proof assembly at your site, to our specifications when mounted in the clear a minimum of 36 ft. above ground. Telrex Tri-Band Arrays employ state of the art materials including micarta insulation, heavy wall reinforced thru the boom dural elements; extra heavy-wall sectioned and specially reinforced aluminum boom, with stainless steel electrical hardware and exclusive custom designed heavy-duty cadmium plated steel gusset plate mounting.

Telrex traps employ hi-voltage, hi-Q, ceramic capacitors encapsulated with 7 coats of 3M Epoxy. They are individually precision tuned to an accuracy unattainable through any other method.

The Telrex Tri-Band Array comes equipped with a patented broad-band coaxial "Balun" (absolutely no ferrites) providing you with maximum coupling and "Balanced-Current" transfer to the Driven Element. Telrex uses optimum tuned separate reflectors to provide maximum gain and true F/B Tri-Band performance.

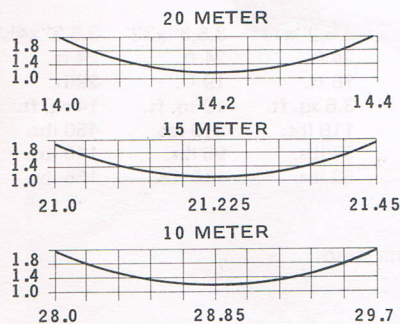
"TRI-BAND" ANTENNA SECTION



Typical measured pattern and V/S/W/R when TB6EM is mounted in the clear, 34 ft. above ground.

all commercial-
Tri-banders by a

No lossy interlaced elements
creating extremely heavy ice
loads!



SPECIFICATIONS

ELECTRICAL

Gain in DB reference 1/2 wave dipole
Front to back ratio
V/S/W/R at resonant point
Maximum Power Input
Nominal Input Impedance
Beamwidth to 1/2 power Input
Frequency range
Side Nulls

TB4EC

5.5 dbd
14 db
1.3/1
2 KWP
52 ohm
65° 3 bands
10, 15, 20
35 db

TB5EM

8.5 dbd
28 db
1.3/1
4 KWP
52 ohm
60° 3 bands
10, 15, 20
35 db

TB6EM

10 dbd
30 db
1.3/1
5 KWP
52 ohm
59° 3 bands
10, 15, 20
35 db

MECHANICAL

Number of Elements
Alum. Boom: Dia. & Lgth. approx.
Turning Radius approx.
Wind Load at 100 mph (approx.)
Wind Area
Longest Element
Net Weight (approx.)
Shipping weight (domestic pack)
Length of shipping carton

Four
2,2.5" x 8 ft.
17 ft.
116 lbs.
4 sq. ft.
30 ft.
30 lbs.
40 lbs.
13 ft.

Five
2,2.5" x 18 ft.
20 ft.
210 lbs.
7 sq. ft.
36 ft.
49 lbs.
60 lbs.
13 ft.

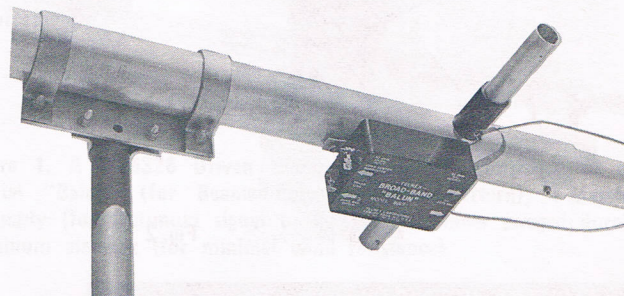
Six
3,3.5" x 26 ft.
22 ft.
300 lbs.
10 sq. ft.
36 ft.
85 lbs.
114 lbs.
16 ft.



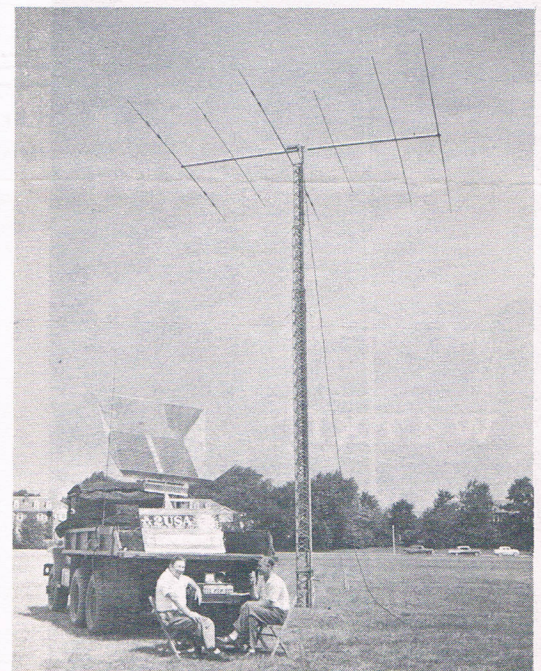
High impact Epoxy encapsulated Traps mounted to a rugged taper swaged Driven Element.

No injection molded low Q traps!

No lossy transposed Driven Element configurations!



Rugged TB6EM Gusset Mounting and Driven Element sections. Including a view of the Broad-Band "Balun".



A proto-type TB6EM Tri-Band Array at Ft. Monmouth, N.J. testing World Wide performance with Solar powered Transciever. IGY year 1959.

TELREX 15 METER "MONARCH" ARRAYS Optimum spaced for optimum results "Balun" fed for Balanced Pattern

Telrex 15 Meter "Balun" fed "Monarch" Arrays are professionally engineered, custom machined, then precision tuned, matched and calibrated for easy fool-proof assembly, at your site, to our specifications when mounted in the clear a minimum of 24 ft. above ground.

Telrex 15 Meter Arrays employ state of the art materials including micarta insulation heavy-wall taper swaged reinforced thru the boom dural elements and, extra heavy wall sectioned and specially reinforced aluminum boom, with boom struts and turn buckles, stainless steel electrical hardware and an exclusive custom designed heavy-duty cadmium plated steel tiltable, gusset plate mounting.

15M317 illust.

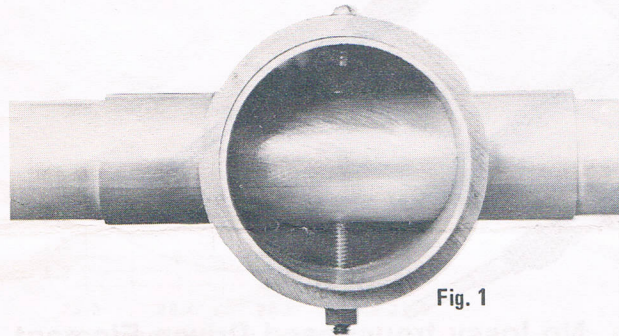


Fig. 1

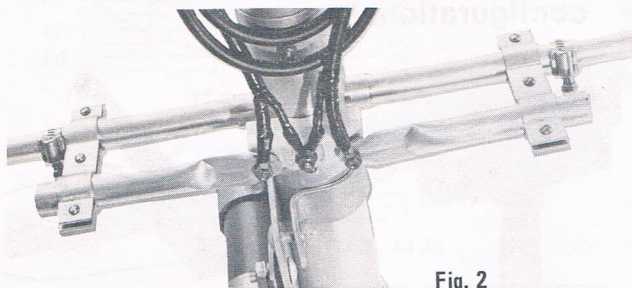


Fig. 2

1. Superior Element Captivation is provided by:

- Passing the element through the boom.
- Reinforcing the boom at the point of intersection with heavy couplers.
- Reinforcing the element at the point of intersection with sleeves and inserts.

2. A ruggedized gusset mounting assembly provides a secure trouble free boom to mast mounting arrangement which disperses stress throughout a greater surface area.

ELECTRICAL

Gain in DB reference 1/2 wave dipole
F/B Ratio
V/S/W/R at Resonant Point
Impedance Bandwidth (2/1 VSWR)
Maximum Power Input
Nominal Input Impedance
Beamwidth to 1/2 Power Point
Number of Elements

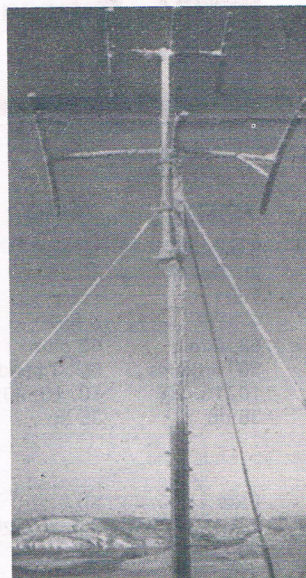
15M317	15M532	15M845
10 dbd	13 dbd	15 dbd
28 db	28 db	28 db
1.2/1	1.2/1	1.2/1
3 %	3 %	3 %
2 KWP	4 KWP	8 KWP
52 ohm	52 ohm	52 ohm
58°	48°	38°
3	5	8

MECHANICAL

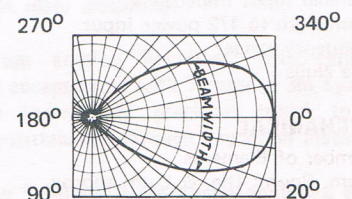
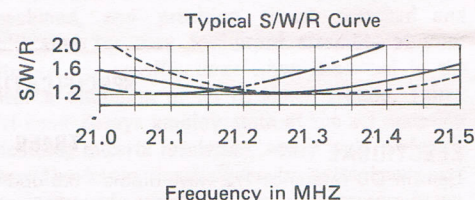
Alum. Boom: Diameter and approx. length.
Longest Element Length (approx.)
Turning Radius (approx.)
Wind Surface Area (approx.)
Wind Load at 100 mph (approx.)
Net Weight (approx.)
Approx. shipping weight (domestic pack)

15M317	15M532	15M845
2.5,2"x17'	3.5,3"x32'	3.5,3"x45'
24 ft.	24 ft.	24 ft.
15 ft.	19 ft.	29 ft.
3.6 sq. ft.	10 sq. ft.	14 sq. ft.
118 lbs.	310 lbs.	450 lbs.
37 lbs.	95 lbs.	140 lbs.
52 lbs.	110 lbs.	165 lbs.

Note! Model 15M317 does not employ boom struts.



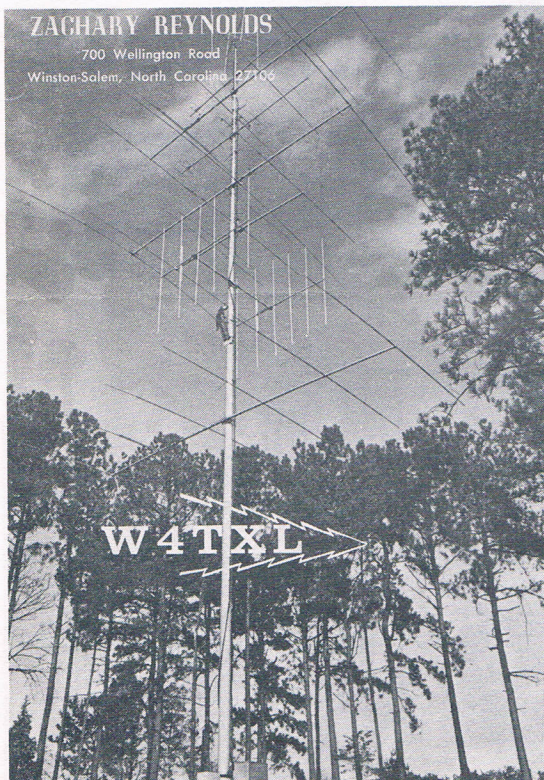
Telrex Performance
and
Durability!



Typical pattern configuration when a 15 Meter Array is mounted in the clear, at 24 ft. above ground. Half power beamwidth illustrated is 58°.

ZACHARY REYNOLDS

700 Wellington Road
Winston-Salem, North Carolina 27106



A "loaded" "Big-Bertha" (17DB10M)-(12DB11M)
(16DB15M) (16DB20M) - (9DB40M) Also 6DB11M
Omni At Top Of B.B.

TELREX 20 METER "MONARCH" ARRAYS

Optimum spaced for optimum results
"Balun" fed for Balanced Pattern

Telrex 20 Meter "Balun" fed "Monarch" Arrays are professionally engineered, custom machined, then precision tuned, matched and calibrated for easy fool-proof assembly, at your site, to our specifications --- when mounted in the clear a minimum of 36 ft. above ground.

Telrex 20 Meter Arrays employ state of the art materials including phenolic insulation, heavy-wall taper swaged reinforced thru boom dural elements, and extra heavy wall sectional and specially reinforced aluminum boom, with boom struts and turn buckles, stainless steel electrical hardware and an exclusive custom designed heavy-duty cadmium plated steel tiltable, gusset plate mounting.

20M326 Illust.

Phased 20M646's, a 20M317 (for change in radiation angle), and a 15M317 mounted to a rotatable "Big-Bertha". *Please refer to pricing sheet for additional information.

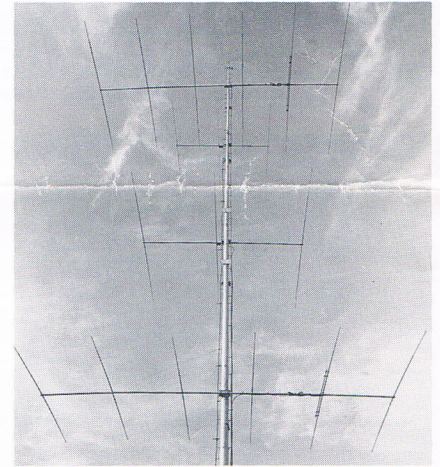
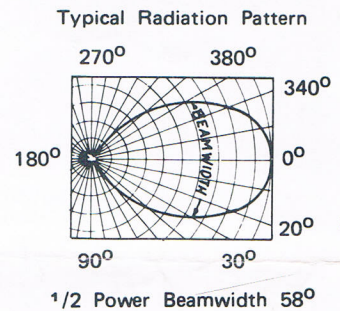
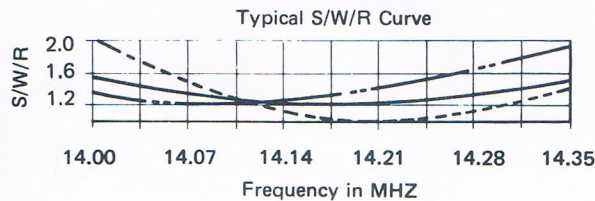


Fig. 1

Figure 1. A 20M326 Driven Element Assembly, consisting of a coaxial "Balun" (for Beamed-Power, Balanced-Pattern), T-Match Assembly (for Optimum signal to noise ratio), taper swaged dural aluminum element (for minimal wind resistance).



ELECTRICAL

Number of Elements
Gain reference 1/2 wave dipole
F/B Ratio
V/S/W/R at Resonant Point
Impedance Bandwidth (2/1 VSWR)
Maximum Power Input
Nominal Input Impedance
Beamwidth to 1/2 Power Point

SPECIFICATIONS

20M326

3
10.0 dbd
30 db
1.2/1
3%
8 KWP
52 ohm
58°

20M536

5
12.0 dbd
30 db
1.2/1
3%
8 KWP
52 ohm
50°

20M646

6
14.0 dbd
30 db
1.2/1
3%
8 KWP
52 ohm
46°

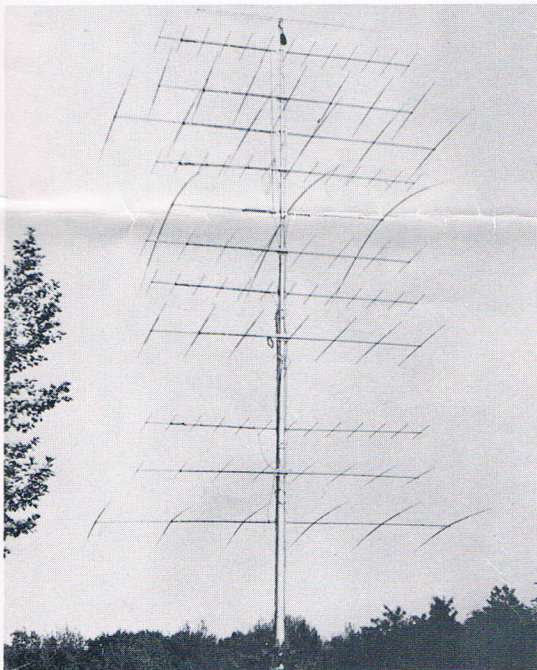
MECHANICAL

Boom length and diameter
Longest Element Length (approx.)
Turning Radius (approx.)
Wind Surface Area (approx.)
Wind Load at 100 mph (approx.)
Net Weight (approx.)
Shipping Weight (approx.)

3.5,3"x26'
36'
24'
8.5 sq. ft.
266 lbs.
71 lbs.
85 lbs.

3.5,3"x36'
36'
26'
13.5 sq. ft.
430 lbs.
113 lbs.
168 lbs.

3.5,3"x46'
36'
29'
17 sq. ft.
530 lbs.
176 lbs.
272 lbs.



2 ea. 20M646's, 2 ea. 15M845's, 2 ea. 10M1044's
2 ea. 2M1528's, a 40M346, a 220M1520, and a
420M2116 mounted to a rotatable "Big-Bertha".
* Please refer to pricing sheet for additional information.

TELREX "XMAS-TREE"

The optimum performance

10, 15 & 20 M "TRI-BAND"®

FOR THE MAN WHO NEVER SETTLES—

—FOR LESS THAN THE VERY BEST!

FROM 149 COUNTRIES AND 50 STATES,
"TOP-MAN-ON-THE-FREQUENCY"
REPORTS HAVE EMANATED FROM-
TELREX "XMAS-TREE" INSTALLATION'S

ANTENNAS ILLUSTRATED:
TELREX MODELS 10M313,
15M317, AND 20M326.

ALSO AVAILABLE CUSTOMIZED TO YOUR REQUIREMENTS!

Telrex Rotatable "Bertha" antenna supports ideal for stacked fed-in-phase arrays.
Special seamless, diamond "E" 1020 tensile, mechanical steel masting, 2" O.D. x .250 wall, available in 19 to 20 ft. random lengths.
Telrex special custom-built to order, 2 section rotatable antenna support masting with 3" O.D. butt, 2" O.D. pull-up arrangement, and welded antenna plate or plates, etc.

"TRI-BAND" is a registered Telrex trademark

**A TELREX "XMAS TREE" INSTALLATION
SEPARATES THE MAN-FROM-THE BOY
ASK THE MAN WHO USES ONE**

Need help planning your antenna, tower, or rotator system best "fitted" to your site, band's, or budget? Write Dept. H.E. for assistance, no obligation! We will suggest the best apparatus designed to rebuild your "ego" daily, and keep you happy.

A TELREX PRODUCT, PROVIDES THE MOST FOR YOUR MONEY

A TELREX "XMAS-TREE" PROVIDES EXCLUSIVELY

- * Optimum performance per-element per-dollar!
- * Optimum dipole coupling and "Balun"-feed system!
- * Optimum impedance and gain band width on 3 or more bands!
- * Optimum non-compromise "balanced-pattern" all bands!
- * Optimum signal-to-noise signal-to-interference ratio, on all bands!
- * Maximum input powers, rain or shine!
- * Min. TVI-BCI and harmonic content!
- * Min. upkeep and maintenance!
- * Changing the resonant freq. of one antenna does not effect the other bands!
- * Can be "customized" to fit your band requirements!

No other ... 3 band system, can provide, all these features!

TELREX 40 METER "MONARCH" ARRAYS Optimum spaced for optimum results Worlds finest, most potent, 2 and 3 element 40 Meter Arrays.

Telrex 40 Meter "Balun" fed "Monarch" Arrays are professionally engineered, custom machined then precision tuned, matched and calibrated for easy, fool-proof assembly, at your site, to our specifications, --- when mounted in the clear a minimum of 64 ft. above ground.

Telrex 40 Meter Arrays employ state of the art materials including glass Melamine insulation, heavy wall taper swaged reinforced thru the boom dural elements, and extra heavy-wall sectional and specially reinforced aluminum boom, with boom struts* and turnbuckles, stainless steel electrical hardware and an exclusive custom designed heavy-duty cadmium plated steel tiltable gusset plate mounting.

SPECIFICATIONS

ELECTRICAL	40M214	40M329	40M346
Number of Elements	2	3	3
Gain reference 1/2 wave dipole	5.6 dbd	8.3 dbd	9.0 dbd
F/B Ratio	17 db	30 db	30 db
V/S/W/R at Resonant Point	1.2/1	1.2/1	1.2/1
Impedance Bandwidth (2/1 VSWR)	4%	4%	4%
Maximum Power Input	4 KWP	4 KWP	4 KWP
Nominal Input Impedance	52 ohm	52 ohm	52 ohm
Beamwidth to 1/2 Power Point	66°	62°	59°
MECHANICAL			
Alum. Boom: length and diameter	3.5,3"x14'	3.5,3"x29'	3.5,3"x46'
Longest Element Length (approx.)	64'	64'	64'
Turning Radius (approx.)	34'	35'	40'
Wind Surface Area (approx.)	8.0 sq. ft.	12.6 sq. ft.	13.8 sq. ft.
Wind Load at 100 mph (approx.)	252 lbs.	406 lbs.	490 lbs.
Net Weight (approx.)	60 lbs.	110 lbs.	177 lbs.
Approx. Shipping Weight	90 lbs.	130 lbs.	222 lbs.

40M346 Illust.

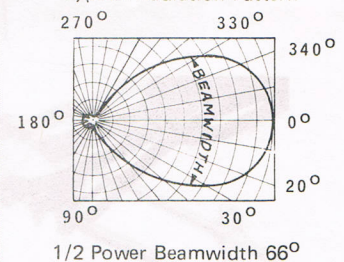
Fig. 1

Fig. 2

Figure 1. Center section of a 40M346 revealing the intricate design and workmanship which comes only with pride. Pride in knowing it is the most durable, and best performing antenna of its kind.

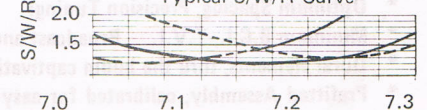
Figure 2. Melamine insulated (for high tensile strength) end element section captivated by a reinforced boom.

Typical Radiation Pattern



1/2 Power Beamwidth 66°

Typical S/W/R Curve



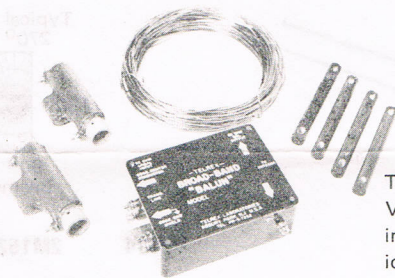
Telrex 40M346 installed at the Telrex "Sky-top" Lab Site.

Please Note: The Telrex Model 40M214 does not require boom struts.

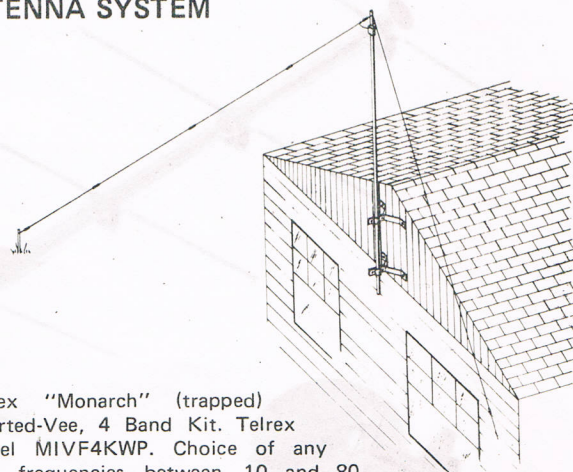
TELREX "BALUN" FED "INVERTED-VEE" ANTENNA KITS

THE IDEAL HI-PERFORMANCE, INEXPENSIVE AND PRACTICAL TO INSTALL LOW-FREQUENCY MONO OR MULTIPLE BAND, 52 OHM ANTENNA SYSTEM

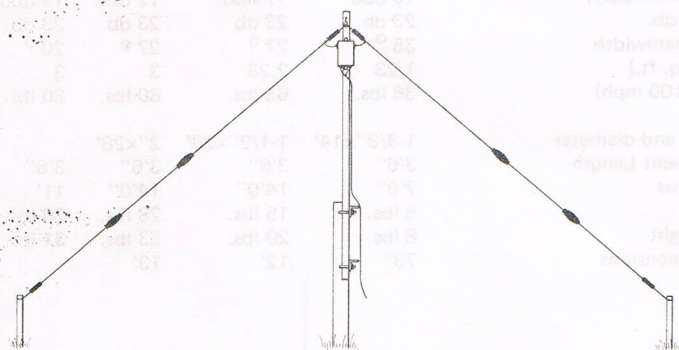
- * OPTIMUM, FULL-SIZE DOUBLET PERFORMANCE, INDEPENDENT OF GROUND CONDITIONS!
- * "Balanced-Pattern", Low Radiation Angle, High Signal to Noise, and Signal to Interference Ratio!
- * Minimal Support Costs, (Existing Tower, House, or Tree) and 2ea. -8ft. x 1" Pipe End Supports!
- * Technician can resonate a Telrex "Inverted-Vee" to frequency, within the hour!
- * Minimal S/W/R possible when installed and resonated to frequency as directed!
- * Pattern is primarily low-angle omni-directional with approximately 6 db nulls at the ends!
- * Complete simplified installation and resonating to frequency instructions supplied with each Kit!



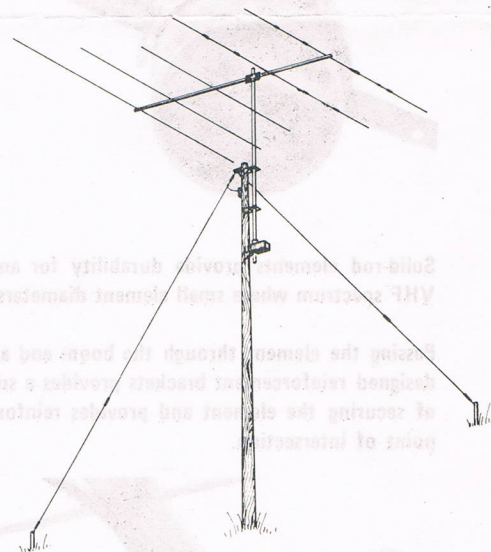
Telrex 40 and 80 Meter Duo-Band "Inverted-Vee" kit Model MIVD4KWP. Also available in 20-40, 15-80, 10-80 Meter etc, combinations.



Telrex "Monarch" (trapped) Inverted-Vee, 4 Band Kit. Telrex Model MIVF4KWP. Choice of any four frequencies between 10 and 80 Meters.



Telrex "Monarch" (trapped) "Inverted-Vee", "Tri-Band" Kit. Telrex Model MIVT4KWP. Choice of any three frequencies between 10 and 80 Meters.



A Telrex Utility Pole Hdwe Kit TMPH10, a TB5EM and a (trapped) Duo-Band "Inverted-Vee" mounted to a 45 ft. stepped Utility Pole.

Area requirements for Telrex "Inverted-Vee" kits are dependent upon the lowest frequency ordered. The following are approximate limitations per the lowest frequency: 80 meters-45 ft. apex/100 ft. base line., 40 meters-36 ft. apex, 90 ft. base line., 20 meters-20 ft. apex 75 ft. base line., 15 meters 18 ft. apex 20 ft. base line.

TELREX "BROAD-BAND" "BALUNS"

Telrex hi-efficiency encapsulated Broad-Band "Baluns" (provided with all Telrex I.V. Kits, also sold separately), have no measurable insertion loss - (or ferrites) - Provide maximum coupling, and "Balanced-Current" transfer to the Driven Element.

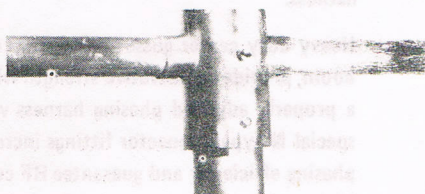
Telrex "Baluns" are carefully adjusted, for Optimum Performance, dependability, and "Balanced-Output" to assure a "Balanced-Pattern" and cold transmission line, so

Model	Rating	Frequency Range	Unbalanced Input	Balanced Output
2K81B	2 KWP	3.5 to 30 Mhz	52 ohms	52 ohms
4K81B	4 KWP	3.5 to 30 Mhz	52 ohms	52 ohms



necessary for optimum signal-to-noise, signal-to-interference pattern. It also minimizes T.V., and Broadcast interference while eliminating transmission line sensitivity, thus making possible accurate and repetitive resonant frequency and V/S/W/R measurements.

Telrex Broad-Band "Baluns" can be used with your beam, or doublet, to improve efficiency and "Pattern" potential.

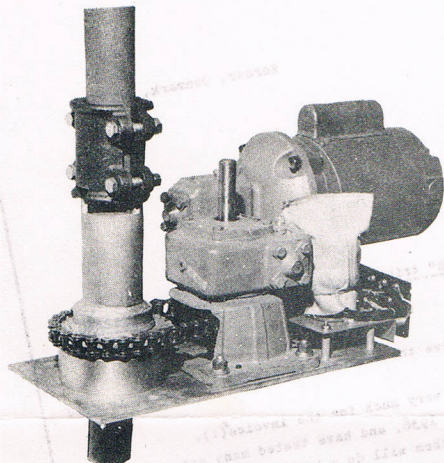


YEAR AFTER YEAR, DECADE AFTER DECADE TELREX HAS AUGMENTED IT'S PROUD POSITION IN THE ANTENNA FIELD THROUGH SIGNIFICANT ENGINEERING ADVANCES AND CONTINUED SEARCH FOR PERFECTION, IN THE LITTLE THINGS AS WELL AS THE BIG! THIS IN FACT IS THE BASIS FOR THE SUSTAINED HIGH VALUE OF TELREX ANTENNAS OVER THE YEARS OF OWNERSHIP! INSTALL A TELREX ANTENNA, THE WISE INVESTMENT IN PERFORMANCE, RELIABILITY AND VALUE!



TELREX CUSTOM-BUILT, 3-STAGE REDUCTION ROTATOR-SELSYN-INDICATOR SYSTEMS

INCORPORATING A 2-STAGE WORM AND WORM WHEEL REDUCER, THE FINAL STAGE IS CHAIN-DRIVEN WITH FEED-THRU ANTENNA MAST CAPTIVATION. EVERY TELREX ROTATOR INCORPORATES AUTOMATIC ANTENNA LOCKING AND ELECTRICAL LIMIT OF ROTATION. BA...SERIES ROTATORS ARE ENCLOSED IN WEATHER PROOF METAL HOUSING, WITH SEALED OUTPUT DRIVE AND THERMOSTATICALLY CONTROLLED ELECTRIC HEATER.



MODEL A1312RISX

MODEL NUMBER

A1312RISX

A2140RISX

A3695RISX

ROTATING TORQUE (in. lbs.)
Output Shaft Travel (approx.)
Output Shaft R.P.M. (approx.)
Antenna Mast Outer Diameter
Drive Motor (110 VAC-60 cps)
Operating Current (amps.)
Overall Dimensions (approx.)

6,000

380

.5 RPM

2" O.D.

1/3 H.P.

3.5

W H L
9-1/2 x 9 x 19"

9,000

380

.5 RPM

2" O.D.

1/3 H.P.

4.2

W H L
11 x 12 x 19"

18,000

380

.5 RPM

3" O.D.

1/3 H.P.

6.6

W H L
11 x 13 x 26"

Net Weight (approx.)

52 lbs.

90 lbs.

125 lbs.

Shipping Weight (approx.)

88 lbs.

145 lbs.

165 lbs.

All 2" O.D. units are supplied with a Telrex maleable cast iron mast clamp.

All open units are supplied with canvas covers for the motor and selsyn unit.

3 number 12, 4 number 14, 5 number 18, PVC Insulated carbon activated poly. jacket. Can be buried under ground.

12 conductor color coded control cable
Available at extra cost.



MODEL NUMBER

BA2345RIHS

BA2899RIHS

BA3/2899RIHS

ROTATING TORQUE (in. lbs.)
Output Shaft Travel (approx.)
Output Shaft R.P.M. (approx.)
Antenna Mast O.D.
Drive Motor (110 VAC-60 cps)
Operating Current (amps.)
Overall Dimensions (approx.)

9,000

380

.5 RPM

2" O.D.

1/3 hp

6.6

W H L
11 x 12 x 25"

12,000

380

.5 RPM

2" O.D.

1/3 hp

6.6

W H L
11 x 12 x 27"

18,000

380

.5 RPM

3" O.D.

1/3 hp

6.6

W H L
11 x 12 x 27"

Net Weight (approx.)

125 lbs.

140 lbs.

145 lbs.

Shipping Weight (approx.)

159 lbs.

190 lbs.

195 lbs.

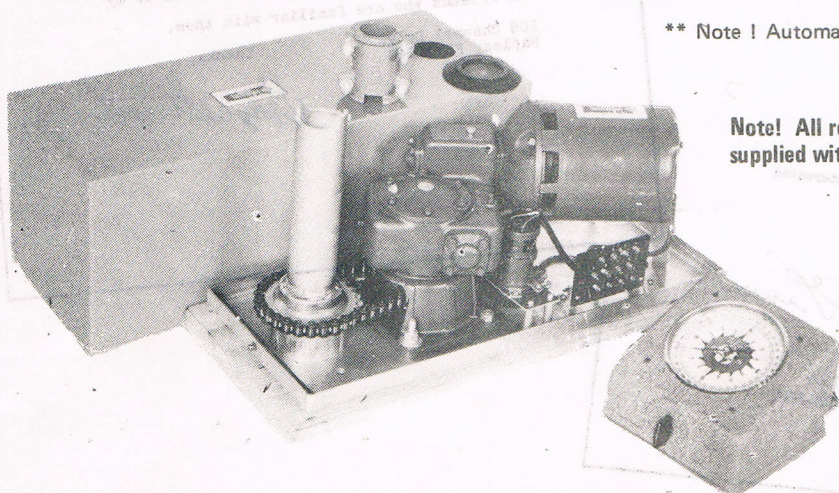
All 2" O.D. boxed units are supplied with a Telrex maleable cast iron mast clamp.

All boxed units are supplied with water sheds, and galvanized metal covers.

** Note ! Automatic electrical limit of rotation. (all models)

Note! All rotator consoles are now supplied with toggle switches.

STANDARD INDICATOR CONSOLE



MODEL BA2899RIHS

TELREX QUALITY PRODUCTS PRICE LIST

PERFORMANCE ! QUALITY !

UHF ARRAYS

	VALUE	YOUR PRICE
420M1511	\$208.00	\$159.00
220M1520	\$248.00	\$191.00

2 METER ARRAYS

2M814	\$143.00	\$110.00
2M1528C 1 KWP	\$215.00	\$165.00
2M1528	\$344.00	\$265.00
2MVS814	\$293.00	\$225.00

6 METER ARRAYS

6M624C 1 KWP	\$215.00	\$165.00
6M624	\$305.00	\$235.00
6M1136	\$500.00	\$385.00

10 METER ARRAYS

	VALUE	YOUR PRICE
10M313	\$279.00	\$215.00
10M523 4 KWP	\$410.00	\$315.00
10M636	\$878.00	\$675.00

15 METER ARRAYS

15M317	\$305.00	\$235.00
15M532 4 KWP	\$631.00	\$485.00
15M845	\$1268.00	\$975.00

20 METER ARRAYS

	VALUE	YOUR PRICE
20M326	\$449.00	\$345.00
20M536 4 KWP	\$751.00	\$585.00
20M646	\$1294.00	\$995.00

TRI-BAND ARRAYS

TB4EC 1.5 KWP	\$318.00	\$245.00
TB5ES LEGAL	\$468.00	\$359.00
TB5EM 4 KWP	\$645.00	\$495.00
TB6EM 4 KWP	\$774.00	\$595.00

DUO-BAND ARRAYS

	VALUE	YOUR PRICE
DBM1015	\$403.00	\$310.00
SDBM30D LEGAL	\$644.00	\$495.00

40 METER ARRAYS

40M214	\$865.00	\$665.00
40M329	\$1294.00	\$995.00
40M346	\$2210.00	\$1700.00

4 BAND ARRAY

ST4BM/3	\$2544.00	\$1995.00
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INVERTED-VEE KITS

	VALUE	YOUR PRICE
MIVD4KWP (2 band)	\$136.00	\$102.00
MIVT4 KWP (3 band)	\$163.00	\$128.00
MIVF4KWP (4 band)	\$208.00	\$165.00
MIVF4KWP/5 (5 band)	\$228.00	\$178.00

Above kits pertain to any frequencies between 10 and 80 Meters

	Gain	F/B	B/W	No. Elem.	Boom Lgth.
420M1511	17.2 dbd	24 db	27°	11	15 ft.
220M1520	17.2 dbd	24 db	27°	15	20 ft.

... NOTE ...

The following products are priced for sale with the purchase of Telrex antennas and or systems. Please refer to the "NET" price when purchasing them as a separate item!

OPEN ROTATORS

	NET PRICE	YOUR PRICE
A1312RISX	\$1287.00	\$990.00
A2140RISX	\$1450.00	\$1100.00
A3695RISX	\$2334.00	\$1795.00

BOXED ROTATORS

	NET PRICE	YOUR PRICE
BA2345RIHS	\$1755.00	\$1350.00
BA2899RIHS	\$2145.00	\$1650.00
BA3/2899RIHS	\$2535.00	\$1795.00

UTILITY POLE HARDWARE KITS

TMPH10	\$350.00	\$205.00
XTMPH10	\$513.00	\$395.00

SUPPORT MASTING

	NET PRICE	YOUR PRICE
2" x .250. x 20 ft. (approx.)	\$295.00	\$220.00
3" x .250. x 19 ft. (approx.)	\$500.00	\$385.00
3" x .250 x 19 ft. with extension.		Price on request.

RG8A/U Price on request.

12 Conductor color coded control cable. Price on request.

Phasing harnesses. Price on request.

PLEASE NOTE: The ... TB5ES ... "Tri-Band" Array structure and performance is exactly the same as the TB5EM. The difference is the power rating only!

Model ST4BM/3 - 10, 15, 20, 40M - 4 Band Array ... Gain ... 10M/11 dbd, 15M/9 dbd, 20M/8 dbd, 40M/7.8 dbd
23 db f/b ratio, 62° beamwidth, 4 KWP rating, 12 sq. ft., 35 ft. turning radius. Note: Same mechanical construction as the popular ruggedized TB6EM.

TELREX ... P.O. BOX 879, ASBURY PARK, NEW JERSEY 07712

PHONE 201-775-7252

ALL PRICES ARE F.O.B. ASBURY PARK, NEW JERSEY

TELREX RESERVES THE RIGHT TO CHANGE SPECIFICATIONS

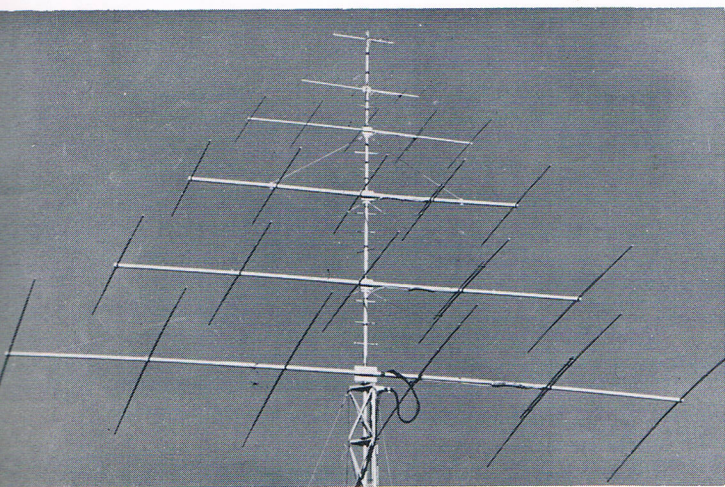
AND PRICES WITHOUT NOTICE

BUY TELREX
AND SAVE !

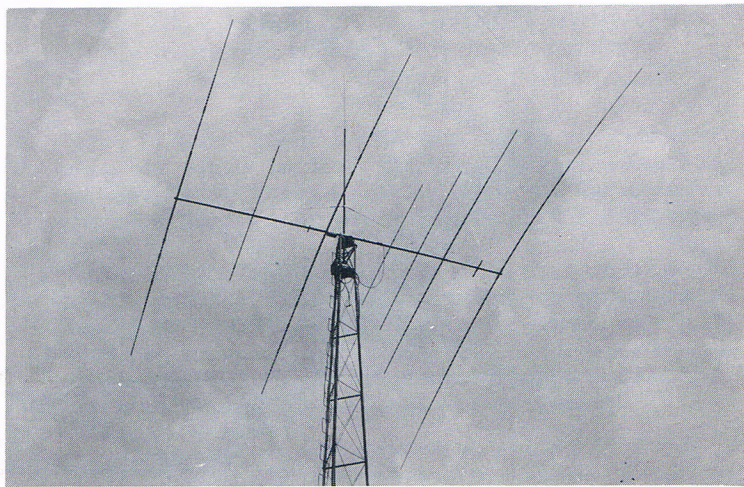


BUY QUALITY
AND SAVE !

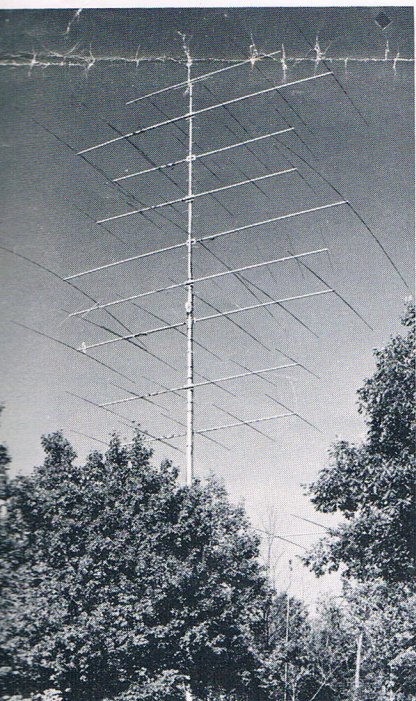




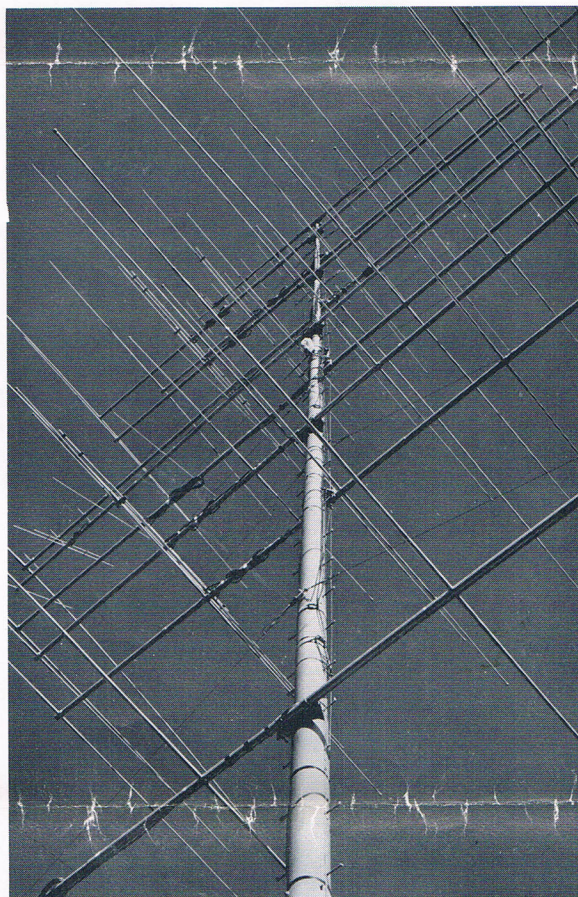
Don Copper W7SXP's 20M646, 15M532, 10M523, 6M516 & 2M609 rotated by a Telrex A3695RISX.



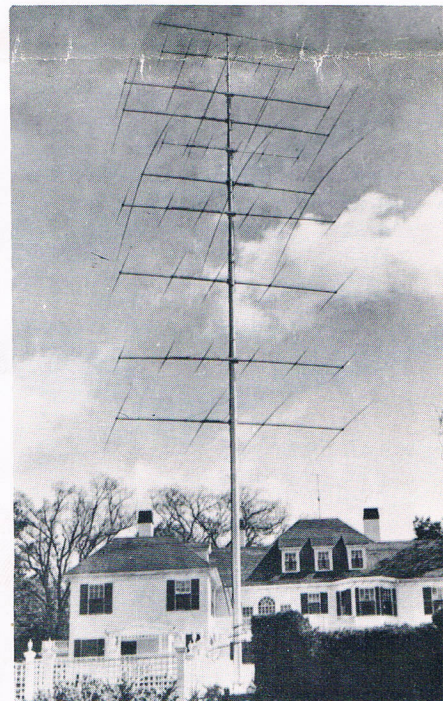
10, 15, 20, and 40 Meter, 4 Band Array, Telrex Model ST4BM/3 at 100 ft.



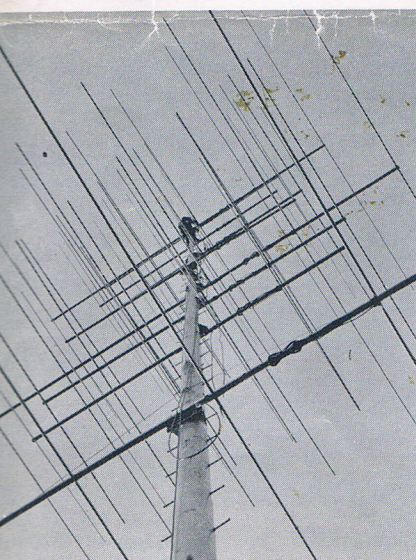
WONLY's "Big-Bertha" location - St Paul, Minn.



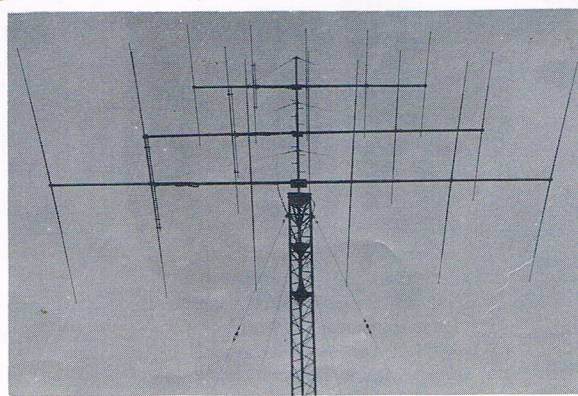
9K2AM'S "Big-Bertha" location Kuwait.



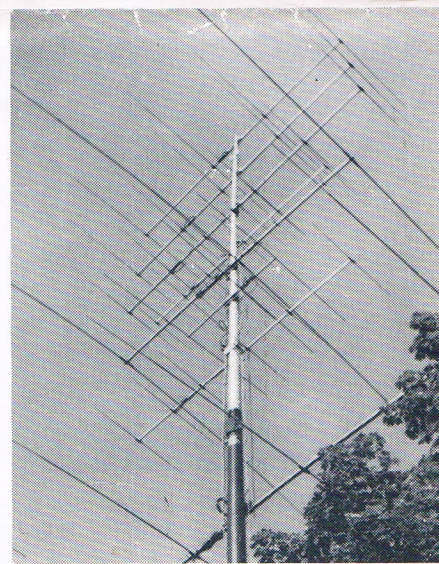
W1FZ's "Big-Bertha" location - New Hampshire.



11RIF's "Big-Bertha" location Milan, Italy



Alvin Toro's KP4D's 20M646, 15M532, and 10M523.



K2GL's "Big-Bertha" location - New Jersey