

XR5-JK

2026 Edition

5-Band Yagi (20M/17M/15M/12M/10M)

Optional 6M Add-on Kit Available



Force | 12

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JK Antennas (“Manufacturer”) warrants to the original purchaser that this product will be free from defects in material, and workmanship for a period of one (1) year from the date of purchase. The determination of whether any part or parts will be covered by this limited warranty and whether any part or parts will be repaired, replaced or refunded will be solely determined by JK Antennas. Such determination will be made following evaluation of claim of alleged defect and subject to evaluation of possible misuse, abuse, unauthorized modifications, extreme weather conditions or improper installation. This warranty does not cover delivery, transportation, installation or any other costs that may be incurred from any defect.

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WARNINGS

- **Installation of this antenna near power lines is dangerous. Contact with any high voltage power lines could result in electric shock or loss of life. Do not install this antenna where there is any possibility that the antenna or any part of the supporting structure could come in contact with power lines.**
- **Also ensure that no persons or pets can come in any contact with the antenna after it is installed. Dangerous voltages can exist on the antenna when it is in operation and no part of the system is insulated to prevent shock.**
- **Consult with FCC OET Bulletin 65 to properly evaluate whether the chosen installation site for this antenna will comply with the FCC guidelines for human exposure limits to radio frequency electromagnetic fields.**
- **This antenna structure is not designed to be used as a support structure. No persons or objects should be supported by or suspended from the antenna structure at any time.**
- **Because most antenna systems are installed at high heights, the installed location must take into account that falling debris may pose a hazard to humans, animals and property on the ground below.**
- **Be aware of and follow all local codes and ordinances when installing this antenna.**

TOOLS REQUIRED

This antenna uses all **SAE standard tool sizes**. Metric fasteners are *not* used on this antenna. Ensure hex keys used are **SAE** sizes to avoid stripping the socket cap screw heads.

Size	Description
5/16"	Nut driver, socket or wrench (for #6-32 nylon lock nuts)
11/32"	Nut driver, socket or wrench (for #8-32 nylon lock nuts)
3/8"	Nut driver, socket or wrench (for #10-24 nylon lock nuts)
7/16"	Nut driver, socket or wrench (for 1/4-20 nylon lock nuts)
9/16"	Nut driver, socket or wrench (for 5/16-18 nylon lock nuts)
7/64"	Allen wrench / Hex Key (for 6-32 socket head screws)
9/64"	Allen wrench / Hex Key (for 8-32 socket head screws)
5/32"	Allen wrench / Hex Key (for 10-24 socket head screws)
3/16"	Allen wrench / Hex Key (for 1/4-20 socket head screws)
9/16"	Socket and ratchet (preferred), or combination wrench, or adjustable wrench (for boom to mast u-bolts)

ASSEMBLY GUIDELINES

1. Open the boxes and lay out the elements, hardware kits and parts
2. Using the parts list at the end this document, check to make sure all tubing, hardware kits and parts are included (extra numbers of bolts, screws, nuts and washers are included)
3. **The use of Penetrox or Noalox or any other Anti-seize/Anti-Oxidant compound is HIGHLY recommended during installation of this antenna. Use a drop or 2 of this anti-seize paste on all screws before fastening. This will prevent the stainless-steel hardware from accidentally locking up. Also a drop or two of the anti-oxidant paste on the element transitions will prevent corrosion in the joints as well ensure long lasting electrical performance.**

The document has been separated into different assembly sections based on the packaged hardware kits. While it is recommended to assemble in the order presented, please adjust as needed based on your working conditions and assembly area.

STEP 1: Boom

The XR5-JK comes with two (2) 6-ft boom end sections (holes on one end), & one (1) 6-ft boom center section which are connected to each other using an internal sleeve at the joint. The boom has a 2" outer diameter.



Assembled Boom Joint

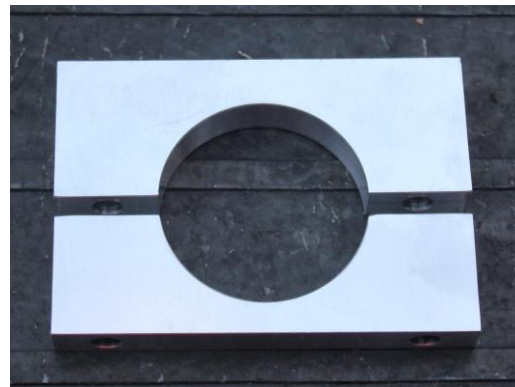
Insert the internal sleeve into one of the boom sections, line up the holes and attach the sleeve using the supplied nuts and bolts in the **Boom Hardware Kit**. Do not over-tighten - once the bolt is seated firmly, make one more turn. Attach the other boom section the same way to complete boom assembly.

STEP 2: Boom to Mast Plate and Clamps

The XR5-JK comes with a 6" x 6" **Boom to Mast Plate**. The **Boom to Mast Plate Kit** includes two (2) sets of clamps sized for the XR5-JK boom, along with appropriate assembly hardware. The **Mast to Mast Plate Kit** include two (2) U-bolt clamps sized for a 2" OD mast, along with appropriate assembly hardware.



Boom to Mast Plate attached to Boom



*Aluminum Clamp with uneven halves
(narrower half always mounted on plate side)*

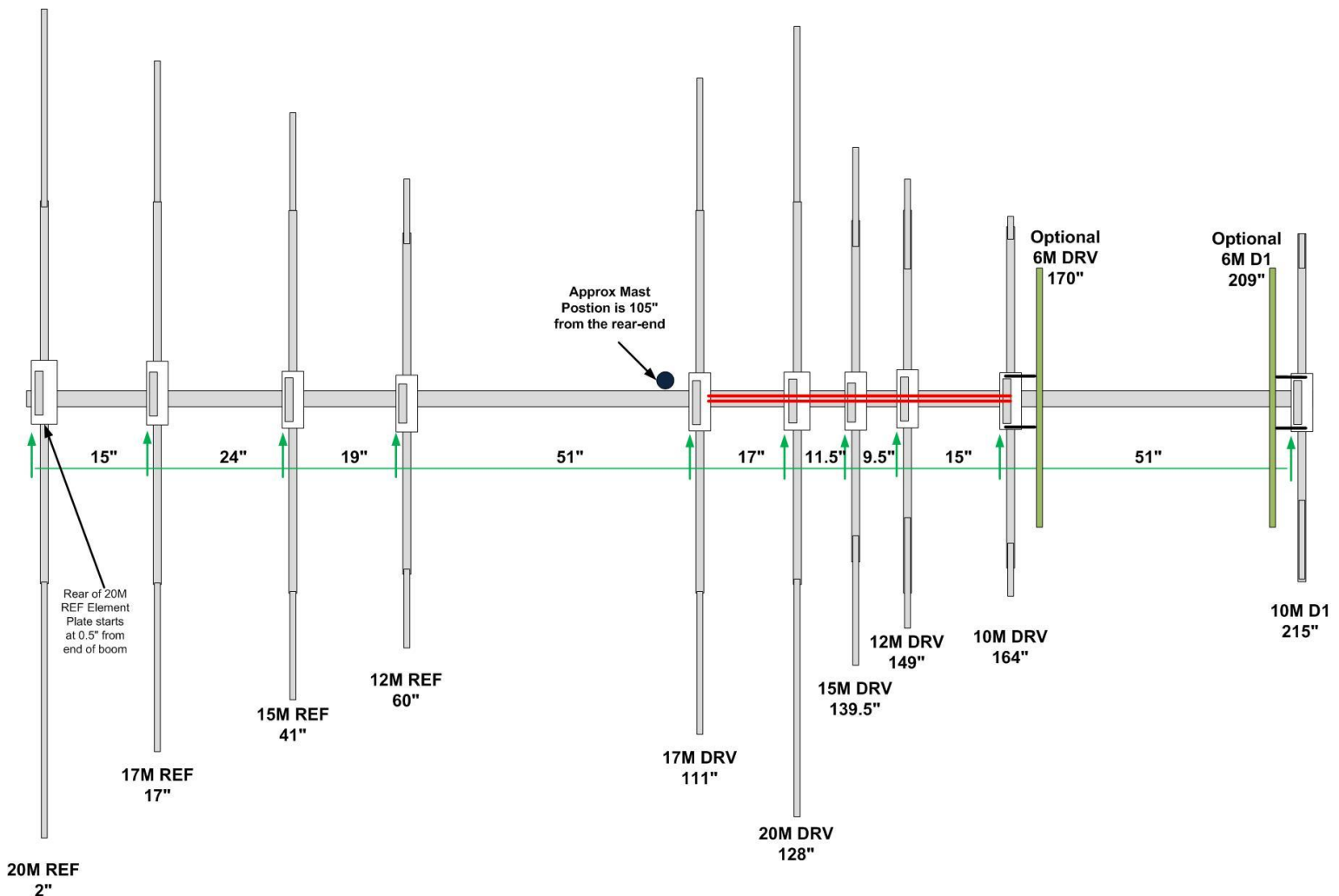
Recommended assembly method: Mount a short (5 foot tall) temporary mast into the ground. Mount the **Boom to Mast Plate** onto the short mast with the U-bolts from the **Mast to Plate Kit** and continue with assembly of the antenna. Once finished, remove the U-bolts and re-attach the assembled antenna on your tower.

Mast position for the XR5-JK is 105" from the reflector-end of the Boom.

Measure and mark the mast position on the boom, and mount the boom at the identified position on the plate using the **Boom to Mast Plate Kit**. Mount the boom so that the bolt head faces up (towards the sky) and the nut faces down (towards the ground).

IMPORTANT NOTE: All clamp sets have uneven halves (i.e. one half of the clamp set is narrower than the other); the narrower half is mounted on the plate side.

Diagram 1



**** All measurements shown here are taken from the reflector-end of the boom to the center of the element.**

STEP 3: Element Assembly

If you are also installing the optional 6M ADD-ON KIT, please read the 6M ADD-ON Kit instructions on page 13 before assembling the 10M DRV and 10MD1 elements.

The elements of the XR5-JK are comprised of various telescoping sizes of aluminum tubing attached to each other using counterbored holes to create a mechanically and electrically superior joint. Elements are designed to be mounted on the underside of the boom, following the location and measurements of **Diagram 1** on the previous page.

First assemble the **Driven Element Center Sections** (STEP 3a). Then, gather the Driven Element and other element center sections, and follow the instructions in the **Element to Element Plate** (STEP 3b) and the **Boom to Element Plate** (STEP 3c) sections coming after. Once all the center sections are mounted on the boom at the identified locations, the rest of the element tapers will be assembled off the antenna (STEP 3d).

STEP 3a: Driven Element Center Section Assembly

The XR5-JK has five Driven Elements - one for each band (20M, 17M, 15M, 12M, 10M). Each Driven Element center section is comprised of two (2) aluminum tubes, one (1) solid fiberglass rod, and the screws and nuts found in the appropriately marked **Driven Element Hardware Kit**.

	20M DRV	17M DRV	15M DRV	12M DRV	10M DRV
ALUMINUM TUBES (2)	36" LONG 1.25" OD	24" LONG 1" OD	12" LONG 1" OD	18" LONG .75" OD	
FIBERGLASS ROD	1" OD	.875" OD			.625" OD
BUTTON HEAD SCREWS	4" LONG	2-1/4" LONG			

For each band's Driven Element center section, the appropriately sized fiberglass rod is used to join together the two corresponding aluminum tubes (see chart above). Slide one end of the fiberglass rod inside the end of one tube and align the holes. Place the screws through the hole and tighten with a Keps nut. Do the same on the other side so that the fiberglass rod has aluminum tubes attached on both sides.

NOTE: The head of the button head screw is to be placed on the same side as the counterbored hole on the opposite end of the tube. The button head screws form the studs that the transmission lines attach to, and these need to be pointing down when assembled and all counterbored holes facing up.



Completed Driven Element Assembly mounted on Element Plate

The aluminum tube/fiberglass rod assemblies of the driven element center sections can be mounted on the element plates and then onto the boom the same as the other element sections.

STEP 3b: Element to Element-Plate Assembly (Driven & Reflector)

The 20M, 17M, 15M, 12M and 10M Element center sections (Driven Element & Reflector) are all attached to an **Element Plate** using the **Element to Element-Plate Kit**.



Element being mounted to Element Plate using Black Clamps and nylon nuts

Take the center (largest) section of each element (see chart below), and attach to an element plate using two (2) **Black Polyamide Clamps** and the appropriate hardware from the corresponding **Element to Element Plate Kit**. Make sure to mount the tubing so that the larger holes used for element taper assembly face up (towards the sky) and NOT down (towards the ground).

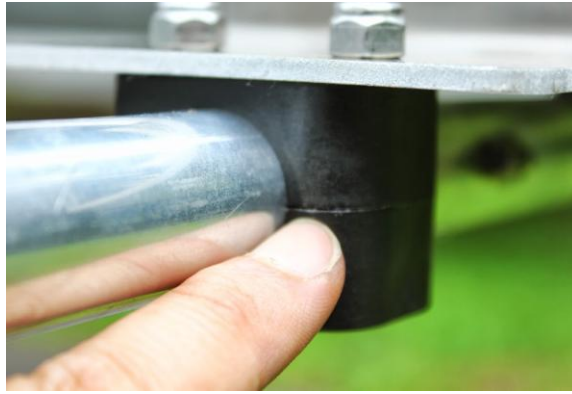
Before applying final torque to the black clamps, there are two alignments that have to be completed:

- 1) Center the mounting plate on the element center section.
- 2) There are holes drilled on each side of the element center sections. **Place the larger counter-bored holes face up on the same side as the nuts are on the mounting plate.** In other words, the plate will be horizontal when mounted (with the black clamps on the underneath), the nuts will be on the topside of the plate and the counterbored holes should be facing straight up.

	20M	17M	15M	12M	10M
CENTER SECTION OD & BLACK CLAMP ID	1.25"	1"	1"	.75"	.75"

After you do the alignments, tighten the screws on the black clamps evenly, alternating between each bolt. Do not apply all the torque to one bolt at a time, as this raises the chances of galling occurring when the opposite bolt is tightened. The gap between the blocks should just close when the torque is correct, and there should be an even amount of thread sticking out above each nut. **Do NOT continue to add additional torque after the gap closes.**

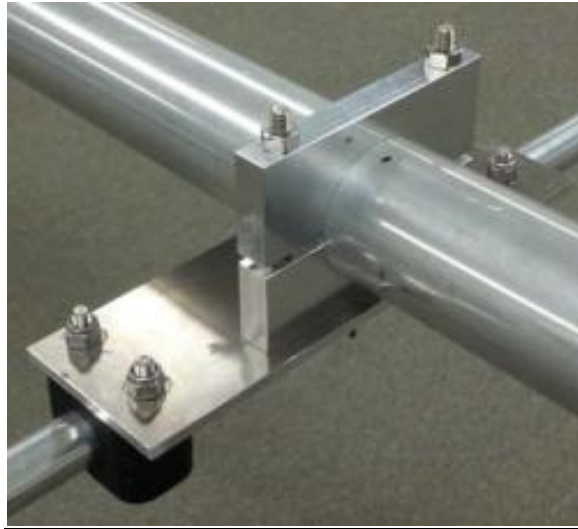
CAUTION: Continuous over-tightening can cause the screw-head to jam through the black clamps holes.



Make sure to center the tubing exactly at the mid-point of the plate.

STEP 3c: Boom to Element Plate Assembly

Once the center sections are mounted on the plates, they can be attached to the boom using one (1) clamp set and the appropriate hardware from the **Boom to Element Plate Kit**. Follow the element positioning indicated in the diagram above.



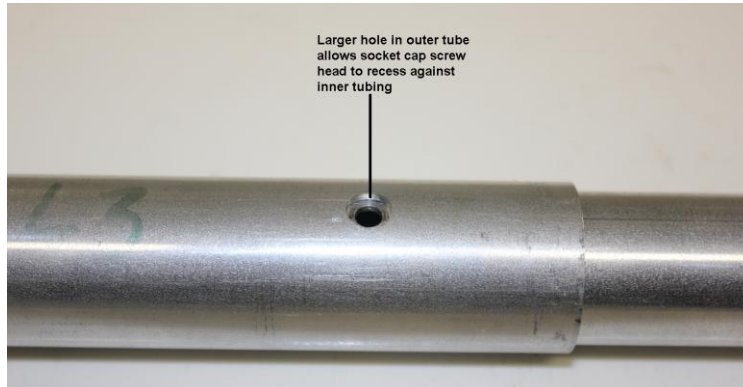
Element Plate mounted to Boom using Saddle clamp

NOTE: The placement of the Driven Elements will also be guided by the attachment of the Transmission Lines (see section on Transmission Line Assembly for more details). Therefore, do **NOT** do final tightening of the nuts on the Boom to Element Clamps holding the Driven Elements until the Transmission Line is in place.

REMEMBER: All clamp sets have uneven halves (i.e. one half of the set is narrower than the other); the narrower half is mounted on the plate side.

- **IMPORTANT:** Since XR5-JK uses only 1 clamp per element plate, and the clamp is mounted off-center, Be **SURE TO** orient the clamp side of the plate closest to the reflector of the antenna, i.e the side towards the 20M Reflector element.
- **IMPORTANT:** It is advisable to have a tape measure that can measure down to 1/16th of an inch. Placing the element plates on the boom accurately will ensure the most precise, accurate and effective antenna performance.

Note the joint in the picture below illustrating the counterbored (larger) hole in the outer tube to tightly nest the screw head.



Each tube has one larger, counterbored hole drilled on one end, on one side. **The side of the tube with the counterbored hole is ALWAYS the outer tube of a joint, with the smaller outer-diameter tube sleeved inside.**

The element sections are joined together with a single socket head cap screw. In all cases where element sections are telescoped together, the head of the socket head screw will be inserted into the larger diameter counterbored hole through the outer tubing and exit out the other side of the larger diameter tubing.

IMPORTANT: Always be aware of the orientation of the larger countersunk hole, and keep them all on the same side as you insert the next tubing section. This way all the socket cap heads remain on the same side of the element tubing.

	1.25" OD TUBE	1.125" OD TUBE	1" OD TUBE	.875" OD TUBE	.75" OD TUBE	.625" OD TUBE	.5" OD TUBE	.375" OD TUBE
20M	CENTER	X	X	X	X	X	X	X
17M			CENTER	X	X	X	X	X
15M			CENTER	X	X	X	X	X
12M					CENTER	X	X	X
10M					CENTER	X	X	X

Following the taper schedules above, assemble the element tubes in descending order on both sides of the element center sections. Align the holes and attach them to each other firmly using the appropriate screws and nuts in the **Element Hardware Kits**. Do not forget to use the anti-seize paste.

NOTE: Nylon nuts used on element sections should not be torqued so much that they crush the tubing. The nut only needs to seat firmly, as the nylon lock will keep it from loosening.



Screw fits into recessed hole - face up



Nylon Nut placed on opposite end - face down

Band	Transition	Screw Size	Nut
20M	1.25" – 1.125"	1-1/2" (SH1024-1)	NN1024
20M	1.125" – 1.0"	1-1/2" (SH1024-1)	NN1024
20M/17M/15M	1" - .875"	1-1/4" (SH832-2)	NN832
20M/17M/15M	.875" - .75"	1-1/4" (SH832-2)	NN832
20M/17M/15M/12M/10M	.75" - .625"	1" (SH832-1)	NN832
20M/17M/15M/12M/10M	.625" - .5"	7/8" (SH632-2)	NN632
20M/17M/15M/12M/10M/6M	.5" - .375"	3/4" (SH632)	NN632

NOTE: The screw heads should all be on the top side of the element (facing the sky) and the nuts on the bottom side of the element (facing the ground).

Exposed Tip lengths of the elements (.375" OD tubes) are as follows:

20M REF	20M DRV	17M REF	17M DRV	15M REF	15M DRV	12M REF	12M DRV	10M DRV	10M D1
42"	28"	45"	38"	27-1/2"	26-3/4"	34-3/4"	34-1/2"	21"	13"

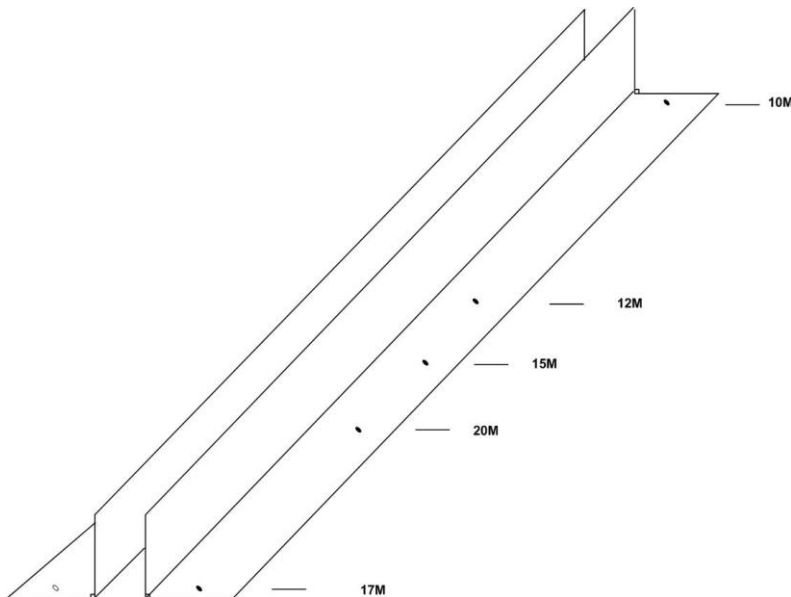
Once all element tapers are installed, it is time to do final horizontal alignment of all the elements on the boom. Sight down the boom and align any elements that need it. Complete final torquing of nuts on all boom to element clamps.

STEP 4: Transmission Lines & Balun Assembly

The XR5-JK is delivered with "pair" of L shaped angle aluminum strip that's 53 inches long. Once mounted, the gap between the transmission lines will be approximately 3/8" (0.375").

Aluminum spacers are placed between the transmission lines and all of the driven elements EXCEPT the 20M Driven Element to keep the transmission lines level. There are 2 different sizes of spacers, which are found along with their corresponding Keps nuts in the **Transmission Line/Balun Kit**:

- Aluminum Spacer #1 (5/8" long) goes on the 10M and 12M Driven elements.
- Aluminum Spacer #2 (1/2" long) goes on the 15M and 17M Driven elements.





The XR5-JK is delivered without a balun. We recommend a 1:1 current balun since the antenna is designed to be fed with a 50 Ohm balanced source, bringing the antenna to true optimum performance.

Mount your balun to the transmission line beneath the 20M Driven element, using the “L” shaped brackets and hardware provided in the **Transmission Line/ Balun Kit**. Use the aluminum spacers to bring the mounting position of the “L” to the balun, just to the point where the balun can be just below the transmission lines. If preferred, a simple length of tie-wrap could be used to secure the balun to the transmission line. Use the supplied Nylock Nut to tighten the “L” brackets below the transmission line and spacers.

(Using a longer lead from the balun to the transmission line can alter the SWR characteristics on all bands. If using a different lead than the one provided please make sure that's it is not more than 2-3 inches long.)

Most Important !!

Please make sure to route the coax away from the Transmission line. It's very important that the coax from/to the balun is not secured or attached or touches the Transmission line. You can loop it around sideways and then go over to the boom and attach there.



STEP 5: Antenna Final Check and Test – prior to installation

Dimensions: Although the element lengths are set from the factory, it is highly recommended that you take the time to document and check *all* the dimensions of your assembled antenna with factory dimensions. There is so much time involved in installing the smallest of antennas that is not worth skipping the dimension documentation. We recommend that make a note of all your element spacings and lengths down to a ¼". Diagram 1 on page 4 shows the element spacings and Diagram 2 on page 8 shows the element taper lengths. The tip lengths for all elements are on page 10.

Hardware Installation: Verify that all the hardware has been tightened and there are no loose fasteners.

SWR Test: You may connect a SWR analyzer with the antenna only a few feet off the ground to make sure you do not have a short or open circuit anywhere. You can do this by verifying that you do not have an extremely high SWR on every band. Do not be concerned unless the SWR is high on all bands. The antenna will not have the specified SWR curves unless it is installed at a height of at least 30 feet above ground. With the antenna at least 8 feet from the ground, you will start to see the SWR “dip” below 1.5:1 somewhere in or near each of the five supported frequency ranges. As long as you start to see a dip somewhere around (above or below) each of the five bands, you may proceed with installation.

Installation: The antenna should be installed by a professional in a safe manner on a support structure that is rated to handle the weight and wind load of this antenna, in all expected weather conditions. The boom to mast plate is supplied with Stainless-steel U-Bolts with saddle clamps to mount to a 2" outer diameter mast (user supplied). The XR5-JK antenna is designed to be fed with 50 Ohm coaxial cable such as RG-8 or RG-213. Pretest the entire run of coax cable with a 50 Ohm “dummy load” to ensure there are no problems with either the coax or the coax connectors. Most SWR issues are due to coax or connector issues and not related to the antenna itself. Even if the coax was previously being used for another antenna, repositioning of the cable can cause new connector faults to occur. You should also test the cable at the full power you intend to run, if possible.

Surrounding metallic objects (other antennas, guy wires, etc.) can affect the performance of the antenna. If the antenna is not interacting with anything, you can expect the specified SWR curve, gain and front to rear performance. There are no user adjustments necessary for this antenna - any SWR issues indicate a coax and/or connector fault, or interaction of this antenna with another metallic object and those situations must be corrected.

OPTIONAL 6M ADD-ON KIT

The optional **6M ADD-ON KIT** is comprised of two 6M element center section, tips and the appropriate assembly and mounting hardware.

The 6M elements are NOT mounted on the boom - the 6M DRV element is mounted onto the Boom to Element Plate of the 10M DRV Element (on the forward side), and the 6M D1 element is mounted onto the Boom to Element Plate of the 10M D1 (rear side), using special **Element Brackets**.



As such, the extra thickness of these Element Brackets requires slightly longer screws to be used when attaching the 10M DRV and 10MD1 elements to their respective Boom to Element Plates.

NOTE: Disregard the screws that are packaged with the Boom to Elements Plates for the 10M DRV and 10M D1, and use the screws that come packaged with the 6M Element Brackets instead.

Attach the center sections of the 10M DRV and 10M D1 elements to their Element Plates following the instructions in **STEP 3b (Page 6)**. However, when positioning the black clamps on the underneath of the plate, position the 6M **Element Bracket** on the top (sky) side of the plate - pointing towards the front of the boom - and attach using the hardware packaged with the brackets.

Once the 10M DRV and 10M D1 elements are mounted onto the boom following the instructions in **STEP 3c**, the center sections of the 6M DRV (attached to the 10M DRV) and the 6M D1 (attached to 10M D1) can be mounted onto the other end of the Element Brackets using the black clamps are hardware provided in the **Element to Element**

Bracket Kit, making sure that the sections are centered exactly, and that the larger, counter-bored holes face up (same as other elements).

Attach the tips of the 6M DRV and 6M D1 elements, following the instructions in **STEP 3d** and the hardware in the **6M Element Hardware Kit**. The exposed tip lengths are as follows:

6M DRV	6M D1
22"	20.75"

BOOM TO MAST ASSEMBLY					
BMP-3				6" x 6" Mast Plate	1
Boom to Mast Plate					
BMC2.0-3i-5/8		2"		Boom to Plate clamp	2
	HH51618	3-1/2"		Hex Head Screw 5/16-18	4+1
	NN51618			Nylon Nut 5/16-18	4+1
Mast to Mast Plate					
U-Bolt + Nuts		2"		Mast to Mast Plate clamp	2

BOOM ASSEMBLY					
AT2.0 Boom SS		6 ft		Boom End	2
AT2.0 Boom DS		6 ft		Boom Center	1
AT1.875 Sleeve				Boom Sleeve	2
Boom Hardware					
	HH51618	2-1/2"		Hex Head Screw 5/16-18	8+2
	NN51618			Nylon Nut 5/16-18	8+2

BOOM TO 20M ELEMENT ASSEMBLIES					
BEP-3		9" x 3"		Element Plate for 20M	2
Element to Element Plate (two 20M Elements)					
BC1.25		1-1/4"		Black Polyamide clamps	4
	SH1420	2-3/4"		Socket Head Screw 1/4-20	8+2
	NN1420			Nylon Nut 1/4-20	8+2
Boom to Element Plate (two 20M Elements)					
BEC2.0-3i-5/8		2"		Boom to Element Plate clamp	2
	HH51618	3-1/2"		Hex Head Screw 5/16-18	4+1
	NN51618			Nylon Nut 5/16-18	4+1

BOOM TO 17M/15M/12M/10M ELEMENT ASSEMBLIES					
BEP-4		8-14" x 2-1/2"		Element Plate for 17M/15M/12M/10M	8
Element to Element Plate (two 17M and two 15M Elements)					
BC1.0		1"		Black Polyamide clamps	8
	SH1420	1-3/4"		Socket Head Screw 1/4-20	16+1
	NN1420			Nylon Nut 1/4-20	16+1
Element to Element Plate (two 12M and two 10M Elements)					
BC.75		3/4"		Black Polyamide clamps	8
	SH1420	1-3/4"		Socket Head Screw 1/4-20	16+1
	NN1420			Nylon Nut 1/4-20	16+1
Boom to Element Plate (two 17M Elements, two 15M Elements, two 12M Elements, two 10M Elements)					
BEC2.0-3i		2"		Boom to Element Plate clamp	8
	HH1420	3-1/2"		Hex Head Screw 1/4-20	16+1
	NN1420			Nylon Nut 1/4-20	16+1

20M ELEMENT ASSEMBLIES (2 Elements)						
AT1.25-20M-REF		REF Center	72" Alum Tube 1.25" OD			1
AT1.25-20M-DRV		DRV Center	36" Alum Tube 1.25" OD			2
AT1.125-20M			23-7/8" Alum Tube 1.125" OD			
AT1.0-20M			23-7/8" Alum Tube 1.0" OD			4
AT.875-20M			23-7/8" Alum Tube .875" OD			4
AT.75-20M			18" Alum Tube .75" OD			4
AT.625-20M			36" Alum Tube .625" OD			4
AT.5-20M			36" Alum Tube .5" OD			4
AT.375-20M-REF		REF Tips	Alum Tube .375" OD			2
AT.375-20M-DRV		DRV Tips	Alum Tube .375" OD			2
20M Element Hardware						
	SH1024-1	1-1/2"	Socket Head Screw 10-24			4
	NN1024		Nylon Nut 10-24			4
	SH832-2	1-1/4"	Socket Head Screw 8-32			8
	SH832-1	1"	Socket Head Screw 8-32			4
	NN832		Nylon Nut 8-32			12
	SH632-2	7/8"	Socket Head Screw 6-32			4
	SH632	3/4"	Socket Head Screw 6-32			4
	NN632		Nylon Nut 6-32			8
20M Driven Element Hardware						
	FG1.0DE	1" OD	Fiberglass Rod for Driven Element			1
	BH1024	4"	Button Head Screw 10-24			2+1
	KN1024		Keps Nut 10-24			2+1

17M ELEMENT ASSEMBLIES (2 Elements)						
AT1.0-17M-REF		REF Center	48" Alum Tube 1" OD			1
AT1.0-17M-DRV		DRV Center	23-7/8" Alum Tube 1" OD			2
AT.875-17M			23-7/8" Alum Tube .875" OD			4
AT.75-17M			18" Alum Tube .75" OD			4
AT.625-17M			36" Alum Tube .625" OD			4
AT.5-17M			36" Alum Tube .5" OD			4
AT.375-17M-REF		REF Tips	Alum Tube .375" OD			2
AT.375-17M-DRV		DRV Tips	Alum Tube .375" OD			2
17M Element Hardware						
	SH832-2	1-1/4"	Socket Head Screw 8-32			8
	SH832-1	1"	Socket Head Screw 8-32			4
	NN832		Nylon Nut 8-32			12
	SH632-2	7/8"	Socket Head Screw 6-32			4
	SH632	3/4"	Socket Head Screw 6-32			4
	NN632		Nylon Nut 6-32			8
17M Driven Element Hardware						
	FG.875DE	.875" OD	Fiberglass Rod for Driven Element			1
	BH1024	2-1/4"	Button Head Screw 10-24			2+1
	KN1024		Keps Nut 10-24			2+1

15M ELEMENT ASSEMBLIES (2 Elements)					
AT1.0-15M-REF		REF Center	24" Alum Tube 1" OD		1
AT1.0-15M-DRV		DRV Center	12" Alum Tube 1" OD		2
AT.875-15M			23-7/8" Alum Tube .875" OD		4
AT.75-15M			18" Alum Tube .75" OD		4
AT.625-15M			36" Alum Tube .625" OD		4
AT.5-15M			36" Alum Tube .5" OD		4
AT.375-15M-REF		REF Tips	Alum Tube .375" OD		2
AT.375-15M-DRV		DRV Tips	Alum Tube .375" OD		2
15M Element Hardware					
	SH832-2	1-1/4"	Socket Head Screw 8-32		8
	SH832-1	1"	Socket Head Screw 8-32		4
	NN832		Nylon Nut 8-32		12
	SH632-2	7/8"	Socket Head Screw 6-32		4
	SH632	3/4"	Socket Head Screw 6-32		4
	NN632		Nylon Nut 6-32		8
15M Driven Element Hardware					
	FG.875DE	.875" OD	Fiberglass Rod for Driven Element		1
	BH1024	2-1/4"	Button Head Screw 10-24		2+1
	KN1024		Keps Nut 10-24		2+1

12M ELEMENT ASSEMBLY (2 Elements)					
AT.75-12M -REF		REF Center	36" Alum Tube .75" OD		1
AT.75-12M-DRV		DRV Center	18" Alum Tube .75" OD		2
AT.625-12M			36" Alum Tube .625" OD		4
AT.5-12M			36" Alum Tube .5" OD		4
AT.375-12M-REF		REF Tips	Alum Tube .375" OD		2
AT.375-12M-DRV		DRV Tips	Alum Tube .375" OD		2
12M Element Hardware					
	SH832-1	1"	Socket Head Screw 8-32		4
	NN832		Nylon Nut 8-32		4
	SH632-2	7/8"	Socket Head Screw 6-32		4
	SH632	3/4"	Socket Head Screw 6-32		4
	NN632		Nylon Nut 6-32		8
12M Driven Element Hardware					
	FG.625DE	.625" OD	Fiberglass Rod for Driven Element		1
	BH1024	2-1/4"	Button Head Screw 10-24		2+1
	KN1024		Keps Nut 10-24		2+1

10M ELEMENT ASSEMBLIES (2 Elements)					
AT.75-10M-DRV		DRV Center	18" Alum Tube .75" OD		2
AT.75-10M-D1		D1 Center	36" Alum Tube .75" OD		1
AT.625-10M			36" Alum Tube .625" OD		4
AT.5-10M			36" Alum Tube .5" OD		4
AT.375-10M-DRV		DRV Tips	Alum Tube .375" OD		2
AT.375-10M-D1		D1 Tips	Alum Tube .375" OD		2
10M Element Hardware					
	SH832-1	1"	Socket Head Screw 8-32		4
	NN832		Nylon Nut 8-32		4

	SH632-2	7/8"		Socket Head Screw 6-32		4
	SH632	3/4"		Socket Head Screw 6-32		4
	NN632			Nylon Nut 6-32		8
10M Driven Element Hardware						
	FG.625DE	.625" OD		Fiberglass Rod for Driven Element		1
	BH1024	2-1/4"		Button Head Screw 10-24		2+1
	KN1024			Keps Nut 10-24		2+1

TRANSMISSION LINES/BALUN ASSEMBLY (Balun not included)						
TL42		42"		Aluminum Angle Bar Transmission Lines		2
	AS-1	5/8"		Aluminum Spacer		4+2
	AS-2	1/2"		Aluminum Spacer		4+2
	NN1024			Nyloc Nuts 10-24		10+2
TL1.5				Aluminum "L" Bracket for Balun		2
	SH1420	1"		Socket Head Screw ¼-20		2+1
	NN1420			Nylon Nut ¼-20		2+1

PARTS NOT SUPPLIED BUT REQUIRED						
	Penetrox/Noalox or other anti-seize paste					
	Tape Measure (at least 20' long)					

XR5-JK PARTS LIST (6M ADD-ON KIT)

6M ELEMENT to ELEMENT ASSEMBLY						
	EEB			Element Brackets		4
	Mounting Screws	SH1420	2"	Socket Head 1/4-20		8+2
Element to Element Bracket (two 6M Elements)						
	BC.5		1/2"	Black Polyamide clamps		4
		SH1420	1-5/8"	Socket Head Screw 1/4-20		8+2
		NN1420		Nylon Nut 1/4-20		8+2
6M ELEMENT ASSEMBLIES (2 Elements)						
	AT.5-6M		D1/DRV Center	72" Alum Tube .625" OD		2
	AT.375-6M-D1		D1 Tips	23-3/4" Alum Tube .375" OD		2
	AT.375-6M-DRV		DRV Tips	25" Alum Tube .375" OD		2
6M Element Hardware						
		SH632	3/4"	Socket Head Screw 6-32		4+2
		NN632		Nylon Nut 6-32		4+2