

Mr. Pavel Vachal OK1DXS

INSTRUCTIONS SHEET FOR 32MCQ & 32MCQ/WB

OK 1 DXS
PAVEL VACHAL
Zahradní 511
345 62 HOLÝSOV
CZECH REPUBLIC

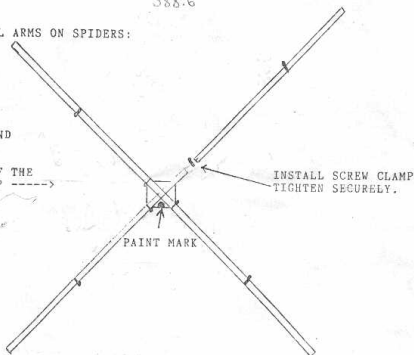
(1.) ASSEMBLE SPREADERS:



(2.) INSTALL ARMS ON SPIDERS:

LAY ON GROUND

THIS SIDE OF THE
SPIDER IS UP ----->



DRÁT NATWELD
ALLOY 5356
SIZE 1/16"
AWS A5.10

BOOM Ø 51 L=244
STENA 1mm

NOTE: PLEASE WEAR GLOVES WHEN WORKING WITH FIBERGLASS.

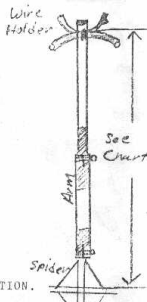
(3.) INSTALL WIRE HOLDERS ON ARMS. SEE CHART BELOW FOR APPROXIMATE WIRE HOLDER POSITIONS.

APPROXIMATE WIRE HOLDER POSITIONS; MEASURE FROM INSIDE OF SPIDER.

BAND	REFLECTOR	DRIVEN ELEMENT
20 MTR	12'7" 383.5	11'10" 360.7
17 MTR	9'8" 294.6	9'4" 284.5
15 MTR	8'4" 254	8'1" 246.4
12 MTR	7'2" 218.4	6'10" 208.3
10 MTR	6' 182.9	5'10" 177.8

DO NOT TIGHTEN TIGHT. ONLY SNUG.
YOU HAVE TO MAKE MORE ADJUSTMENTS.
REMEMBER: THESE ARE APPROXIMATE WIRE HOLDER POSITIONS. MORE ADJUSTMENTS WILL BE NEEDED WHEN WIRES ARE INSTALLED.

****NOTE: WHEN WORKING WITH WIRE WEAR EYE PROTECTION.

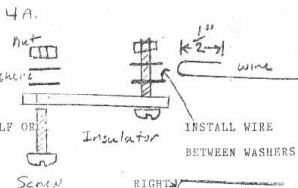


(4.) MEASURE, CUT, AND INSTALL ONE WIRE AT A TIME. START WITH 20 MTR. REFLECTOR SEE FIGURE 4A FOR INSULATOR ASSEMBLY AND INSTALLATION. ONCE WIRE IS INSTALLED, ADJUST WIRE HOLDERS SO THAT ELEMENT IS DISTRIBUTED EVENLY OVER THE SPREADERS. WIRE SHOULD BE SNUG BUT NOT TO TIGHT. THERE SHOULD BE A SLIGHT BOW TO THE SPREADERS. (DO NOT OVER TIGHTEN.)

CUT WIRES TO FOLLOWING LENGTHS, INSTALL AS SHOWN ON NEXT PAGE.

20 MTR	72'6" 2209.8
17 MTR	57'2" 1742.4
15 MTR	48'8" 1483.4
12 MTR	41'5" 1262.4
10 MTR	35'8" 1087.1

DO NOT CROSS WIRE OVER ITSELF OR IT WILL BREAK



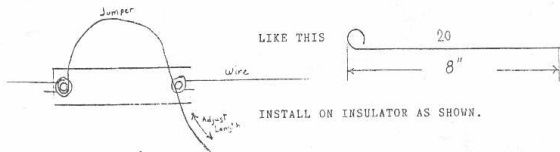
RIGHT

WRONG

Wire will Break Here

(4B.) ADJUSTABLE REFLECTOR STUB:

CUT 8" OF WIRE. MAKE LOOP ON ONE END.

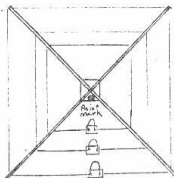


PRESET REFLECTOR MAKE JUMPERS THE FOLLOWING LENGTHS AND INSTALL ON INSULATORS AS IN STEP ABOVE.

20, 17, 15 MTR	6"	15
12 MTR	5"	13 (DLVD 18°)
10 MTR	4"	10



(4C.) MAKE SURE THE INSULATORS ARE LOCATED UNDER THE PAINT MARK. AFTER FINAL ASSEMBLY, PAINT MARKS WILL BE AT THE BOTTOM, OR TOWARDS THE GROUND.



(5.) DRIVEN ELEMENT:

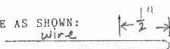
REPEAT STEP 4. IF YOU ARE INSTALLING THE TRANSFORMER START WITH 15 MTR. WIRE FIRST. ADJUST WIRE HOLDERS AFTER ALL WIRES HAVE BEEN INSTALLED.

CUT WIRES TO THE FOLLOWING LENGTHS.

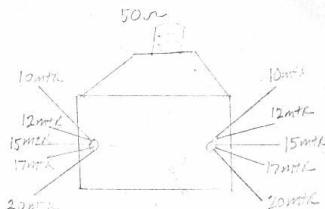
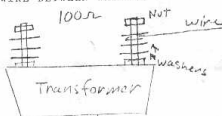
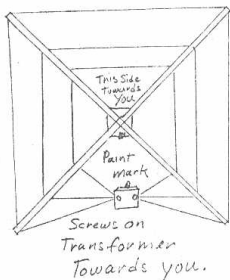
15 MTR.	47'8"	1452.8	(363.2)
20 MTR.	70'6"	2148.8	(537.2)
10 MTR.	35'	1066.8	(266.7)
17 MTR.	55'9"	1699.3	(424.8)
12 MTR.	40'5"	1231.9	(308.0)

INSTALL WIRE BETWEEN WASHERS

BEND WIRE AS SHOWN:

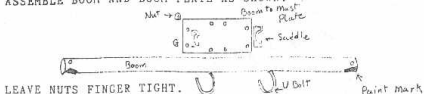


DO NOT BEND WIRE OVER ITSELF.



(6.) BOOM ASSEMBLY:

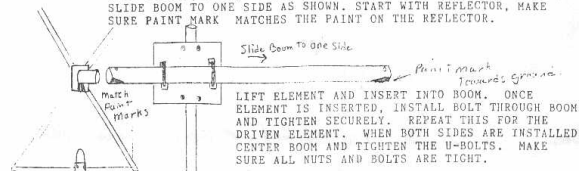
ASSEMBLE BOOM AND BOOM PLATE AS SHOWN.



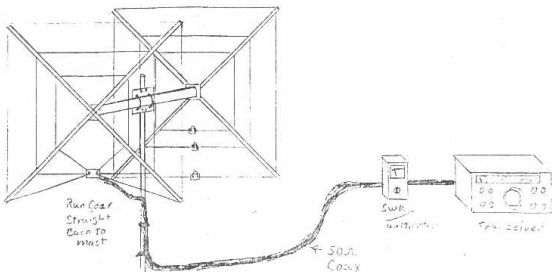
LEAVE NUTS FINGER TIGHT.

(7.) FINAL ASSEMBLY: DANGER DO NOT INSTALL NEAR POWER LINES.

INSTALL THE BOOM ASSEMBLY ON A MAST OR SOME SUPPORT (TOWER, STEP LADDER, ETC.) PAINT MARKS SHOULD BE TOWARDS THE GROUND. SLIDE BOOM TO ONE SIDE AS SHOWN. START WITH REFLECTOR, MAKE SURE PAINT MARK MATCHES THE PAINT ON THE REFLECTOR.



(8.) FINAL ASSEMBLY SHOULD LOOK LIKE THIS.



INPORTANT:

TUNERS, SWITCH BOXES, FILTERS, LINEAR AMPLIFIERS, WILL EFFECT SWR READINGS. YOU SHOULD HAVE NOTHING BUT COAX BETWEEN THE SWR/WATT METER AND THE ANTENNA. DO NOT USE TUNER. IF LINEAR AMP. IS USED, LOCATE BETWEEN RIG AND SWR METER. IF ANYTHING OTHER THAN THE ABOVE CIRCUIT IS USED, YOU WILL BE RESPONSIBLE FOR ANY SWR PROBLEMS. LIGHTNING BOLT ANTENNAS IS NOT RESPONSIBLE FOR ACCIDENTS, TVI, RFI, APPEARANCE OR INSTALLATION COMPLAINTS. !!!!!!!DANGER!!!!!!! DO NOT INSTALL NEAR POWER LINES.

IF YOU HAVE ANY QUESTIONS CALL (412) 530-7396

MIKE'S ATUO ELECTRIC
LIGHTNING BOLT ANTENNAS
RD # 2 RT 19
VOLANT, PA. 16156



HARRIS WELCO

Division Of J.W. Harris Co., Inc.

WARNING: This product may contain chromium and/or nickel which are listed by OSHA, NTP, or IARC as being a carcinogen or potential carcinogen. Use of this product may expose you or others to fumes and gases at levels exceeding those established by the American Conference of Governmental Industrial Hygienists (ACGIH) or the Occupational Safety and Health Administration (OSHA). Before use, read and understand the Material Safety Data Sheet (MSDS) for this product. **WARNING:** PROTECT yourself and others. Read and understand this information. FUMES AND GASES can be hazardous to your health. ARC RAYS can injure eyes. ELECTRIC SHOCK can KILL. HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure eyes.

• Before use, read and understand the manufacturer's instructions, Material Safety Data Sheets (MSDS's), and your employer's safety practices. • Keep your head out of the fumes. • Use enough ventilation, exhaust at the flame/arc, or both, to keep fumes and gases from your breathing zone and the general area. • For maximum safety, be certified for and wear a respirator at all times when welding or brazing. • Wear correct eye, ear, and body protection. • Do not touch live electrical parts. • See American National Standard Z49.1, "Safety in Welding, Cutting And Allied Processes", published by the American Welding Society, 550 N.W. LeJeune Rd., Miami, Florida 33126; OSHA Safety and Health Standards, 29 CFR 1910, available from the U.S. Government Printing Office, Washington, DC 20402. • A Material Safety Data Sheet for this

product is enclosed in this package. The MSDS contains detailed safety and health information about possible hazards associated with the use of this product. The MSDS is also available from your employer or by contacting Harris Welco, P.O. Box 69, Kings Mountain, NC 28086. • The state of California requires the following information: **WARNING:** The following aluminum products contain a chemical known to the state of California to cause cancer: 5154, 5183, 5356, 5554, 5556, and 5654. • **WARNING:** Stainless Steel contains a chemical(s) known to the state of California to cause cancer. • **WARNING:** The following products contain a chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: PhosBronze C, ALB-A1 and ALB-A2.

DO NOT REMOVE THIS INFORMATION

ALLOY
ER5356

SIZE
1/16
(1.6mm)

HEAT
00168

NET WT.
1#
(.45kg)

MADE IN CANADA

ALUMINUM MIG

PN: 0535631

AWS/SFA A5.10



1051 York Rd. • Kings Mtn., NC 28086
U.S.A. • (704) 739-6421

AlcoTec

A Subsidiary of The ESAB Group, Inc.
2750 Aero Park Drive, Traverse City, MI 49686-9263

ANSI/AWSA 5.10 **Aluminum Electrode** ASME SFA-5.10 7Z 608
NET WT. 1lb. (0.45KG)

ALLOY

ER5356



DIA
1/16in(1.6mm)

LOT

015811

PN#: PN#:535601062

PATENTED FEEDABILITY



ALMIGWELD®

Made in USA

WARNING: Fumes and gases can be dangerous to your health. The gas ozone can be irritating if inhaled and can cause delayed lung injury. Arc rays can injure eyes and burn skin. • Electric shock can kill. Keep your head out of the fumes. Use enough ventilation, exhaust at the arc, or both, to keep fumes and gases away from your breathing zone and general area. Wear correct eye, ear and body protection. Do not touch live electrical parts. • Protect yourself and others. Read and understand this information. Read and understand the manufacturer's instructions and your employer's safety practices. See Material Safety Data Sheet for more information about use and disposal. • See American National Standard Z49.1, Safety in Welding and Cutting, published by the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126: OSHA Safety and Health Standards, CFR 1910 available from the U.S. Government Printing Office, Washington DC 20402. • Do not remove this information. For industrial use only.

Warning: This product contains or produces a chemical known to cause cancer and birth defects (or other reproductive harm).



269

AVERTISSEMENT: Les fumées et les gaz peuvent être dangereux pour la santé. L'ozone de gaz peut causer une irritation s'il est respiré, et peut causer des lésions retardées aux poumons. Les rayons d'arc peuvent blesser les yeux et brûler la peau. Le choc électrique peut causer la mort. • Maintenir la tête éloignée de la fumée. Utiliser assez de ventilation, d'échappement à l'arc, ou les deux, pour éloigner les fumées et les gaz de votre aire de respiration et de l'aire générales. • Porter une protection correcte pour les yeux, les oreilles et le corps. • Ne pas toucher aux parties électrisées. Lire et comprendre ces informations. • Lire et comprendre les informations du fabricant et les pratiques sécuritaires de votre employeur. Voir les Fiches de Données de Sécurité des Matériaux pour plus d'information concernant l'utilisation et l'évacuation. • Voir American National Standard Z49.1, Safety in Welding and Cutting. Publié par le American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126: OSHA Safety and Health Standards, 29 CFR disponible au U.S. Government Printing Office, Washington DC 20402. • Ne pas enlever cette information. Pour usage industriel seulement.

(California Health & Safety Code § 25249.5 et seq.)