



Force 12
90 Barnett Shale Dr.
Bridgeport, TX 76426 USA
Tel: 940-683-8371, Fax: 940-683-8387

Sales Invoice

4860

Released

6/18/2013

Geoffrey Howard

Billing Information

Geoffrey Howard
1984 Trares Road
Suffield
Ohio Zip: 44260-
USA
PO No
W0CG
Order Date
6/18/2013
Project Name
C-3E/H

Shipping Information

Name: Elmer Steingass
Atten: w8av@aol.com 330-465-6206
Add: 1690 N Honeytown Road
City: Wooster
State: Zip:
Country:
Ship Via:

General Order Notes:

*Must ship on time for South
America Connect NLT 7-23-13*

Change Notice

Ord Qty	Ship Qty	Part Number	Model / Description	Unit Price	Ext Price
1	0	99-C-3E/H	3-Band Yagi, 8ele, 18' boom, 20-15-10, 120 MPH	\$1,499.00	\$1,499.00
1	0	30-1101	EB-1 1:1 Balun 160-10m, 1.8 - 14MHz, 2.5KW; 18-30MHz, 2KW	\$79.95	\$79.95

Sub Total \$0.00
Freight: \$0.00
Taxes: \$0.00
Total: \$0.00

Payment Terms
B 4 Ship

Shipping / Handling

Payment Date:
Check Number:

Payment: \$0.00
Balance: \$0.00

*G Howard -
Kent. EDH*

FORCE 12

90 Barnett Shale

Bridgeport, Texas 76426

Email: force12.texasantennas.com Phone: 940:683-8371

Classic Multi-Monoband Series C-3E/H

Parts Packing List

- ✓(1) Manual
- ✓(1) Noalox/brush

- ✓(1) Easy on Mast Mount Assembly
- ✓(4) Large U bolts /washer & nuts
- ✓(4) Medium u-bolts/washers & nuts
- ✓(8) Small u-bolts/washers & nuts
- ✓(1) 8" x 1 1/4" insulator
- ✓(2) 4" x 1 1/4" insulator
- ✓(2) 8" x 1" insulator
- ✓(4) 8" x 3/4" insulator
- ✓(300) Short rivets
- ✓(460) Long rivets

Feed point hardware assembled on element

Geoffrey Howard W0CG 6/18 Sales Order 4860

Must ship no later than 7-23-13

Additional Items:

- ✓(1) EB-1

Thank you for your order:

Weight: _____ # BOX SIZE: 85 " x 11 " x 9 "

Packed & Inspected by: JR Date: 7-5-2013

one 10 m reflector

BOM Indented 7 Levels

99-C-3E/H

3-Band Yagi, 8ele, 18' boom, 20-15-10, 120 MPH

Rev 1 Last UpDate 7/6/2009

Qty / Part	Rev	Description	Reference Designators	Type / Lev
1 32-1045	1	10 meter reflector, C-3E/H		Product L1
2 20-1003		Cut tube .058" x 0.375" x 48"		Product L2
4 16-2000		6063-T832 Drawn Aluminum tubing .058"x 0.375", cost/ft		Product L3
2 20-1007	1	Cut tube .058" x 0.500" x 24"		Product L2
2 16-2001		6063-T832 Drawn Aluminum tubing .058"x 0.500", cost/ft		Product L3
2 20-1015	1	Cut tube .058" x 0.625" x 48"	45"	Product L2
4 16-2002		6063-T832 Drawn Aluminum tubing .058"x 0.625", cost/ft		Product L3
1 20-1019	1	Cut tube .058" x 0.750" x 48"		Product L2
2 32-1046	1	10 meter drive #2r, C-3/H		Product L1
2 20-1001		Cut tube .058" x 0.375" x 36"		Product L2
3 16-2000		6063-T832 Drawn Aluminum tubing .058"x 0.375", cost/ft		Product L3
2 20-1007	1	Cut tube .058" x 0.500" x 24"		Product L2
2 16-2001		6063-T832 Drawn Aluminum tubing .058"x 0.500", cost/ft		Product L3
2 20-1015	1	Cut tube .058" x 0.625" x 48"	45"	Product L2
4 16-2002		6063-T832 Drawn Aluminum tubing .058"x 0.625", cost/ft		Product L3
1 20-1019	1	Cut tube .058" x 0.750" x 48"		Product L2
1 32-1047	1	10 meter driver #1, C-3/H		Product L1
2 20-1005		Cut tube .058" x 0.375" x 40"		Product L2
3.333 16-2000		6063-T832 Drawn Aluminum tubing .058"x 0.375", cost/ft		Product L3
2 20-1007	1	Cut tube .058" x 0.500" x 24"		Product L2
2 16-2001		6063-T832 Drawn Aluminum tubing .058"x 0.500", cost/ft		Product L3
2 20-1015	1	Cut tube .058" x 0.625" x 48"	45"	Product L2
4 16-2002		6063-T832 Drawn Aluminum tubing .058"x 0.625", cost/ft		Product L3
1 20-1019	1	Cut tube .058" x 0.750" x 48"		Product L2
1 32-1532	1	15 meter reflector- C-3/H		Product L1
2 20-1002		Cut tube .058" x 0.375" x 38"		Product L2
3.17 16-2000		6063-T832 Drawn Aluminum tubing .058"x 0.375", cost/ft		Product L3
2 20-1007	1	Cut tube .058" x 0.500" x 24"		Product L2
2 16-2001		6063-T832 Drawn Aluminum tubing .058"x 0.500", cost/ft		Product L3
2 20-1013	1	Cut tube .058" x 0.625" x 24"		Product L2
2 16-2002		6063-T832 Drawn Aluminum tubing .058"x 0.625", cost/ft		Product L3
2 20-1019	1	Cut tube .058" x 0.750" x 48"	45"	Product L2
2 20-1024	1	Cut tube .058" x 0.875" x 48"		Product L2
4 16-2004		6063-T832 Drawn Aluminum tubing .058"x 0.875", cost/ft		Product L3
1 20-1026	1	Cut tube .058" x 1.000" x 48"		Product L2
4 16-2005		6063-T832 Drawn Aluminum tubing .058"x 1.000", cost/ft		Product L3

Qty / Part	Rev	Description	Reference Designators	Type / Lev
2 20-1030		Cut tube .058" x 1.125" x 48"		Product L2
4 16-2006		6063-T832 Drawn Aluminum tubing .058"x 1.125", cost/ft		Product L3
2 20-1031	1	Cut tube .058" x 1.250" x 48"		Product L2
4 16-2007		6063-T832 Drawn Aluminum tubing .058"x 1.250", cost/ft		Product L3
2 20-1063		Cut tube .058" x 1.000" x 36"		Product L2
3 16-2005		6063-T832 Drawn Aluminum tubing .058"x 1.000", cost/ft		Product L3
2 20-1130		Cut tube .058" x 0.875" x 57"		L2
4.75 16-2004		6063-T832 Drawn Aluminum tubing .058"x 0.875", cost/ft		Product L3
2 20-1164	1	Cut tube .058" x 0.750" x 46"	45"	L2
3.833 16-2003		6063-T832 Drawn Aluminum tubing .058"x 0.750", cost/ft		Product L3
1 26-1007		1.0" x 8" Fiberglass insulator		Product L2
0.167 25-1010		1" x 96" Fiberglass Rod		L3
1 34-1043	2	18' x2" boom for C-3/H		Product L1
8 01-1013		1/4-20 x 2.5" stainless hexbolt		Product L2
8 01-1019		1/4-20 SS Nylock nut		Product L2
3 02-1001	3	3" x 6" element bracket kit-1 for 3/4" dia elements		Product L2
4 01-1016		1/4" SS flat washer		Product L3
4 01-1017		1/4" SS split lock washer		Product L3
4 01-1018		1/4-20 SS hex nut		Product L3
2 01-1040		1-1/8 x 1/4-20 x 2 Small U bolt, zinc		Product L3
4 01-1062		3/16" rivet, Closed end, Grip range: .188 - .250"		Product L3
1 01-1070		3" x 6" element brackets -1 2" boom		Product L3
0 01-1172		2 x 1/4-20 x 1-1/8, Small U bolt, SS	Optional stainless steel U bolts	Product L3
1 26-1001		Split PVC .750" x 8"		Product L3
0.667 25-1001		3/4" PVC, gray, 10ft		L4
2 02-1002	4	4" x 8" thin element bracket -2, kit for 1.00" dia elements		Product L2
1 01-1013		1/4-20 x 2.5" stainless hexbolt		Product L3
1 01-1019		1/4-20 SS Nylock nut		Product L3
4 01-1024		5/16" SS flat washer		Product L3
4 01-1026		5/16 stainless split lock washer		Product L3
4 01-1027		5/16-18 SS hex nut		Product L3
2 01-1041		1-3/8 x 5/16 -18 x 2-3/16 Medium U bolt, zinc		Product L3
8 01-1062		3/16" rivet, Closed end, Grip range: .188 - .250"		Product L3
1 01-1071		4" x 8" element brackets -2 2" boom thin		Product L3
1 26-1003	1	Split PVC 1" x 8"		Product L3
0.667 25-1000		1" PVC, gray, 10ft		L4
2 02-1003	3	4" x 8" element bracket-3, kit 1.25" dia element		Product L2
1 01-1013		1/4-20 x 2.5" stainless hexbolt		Product L3
1 01-1019		1/4-20 SS Nylock nut		Product L3
4 01-1024		5/16" SS flat washer		Product L3
4 01-1026		5/16 stainless split lock washer		Product L3
4 01-1027		5/16-18 SS hex nut		Product L3
2 01-1042		1-3/4" x 5/16-18 x 2-11/16, Large U bolt, zinc		Product L3
8 01-1062		3/16" rivet, Closed end, Grip range: .188 - .250"		Product L3
1 01-1073		4" x 8" element brackets -3 2" boom		Product L3
0 01-1174		2-11/16" x 5/16-18 x, 1-3/4 Large U bolt, SS	Optional Stainless Steel	Product L3

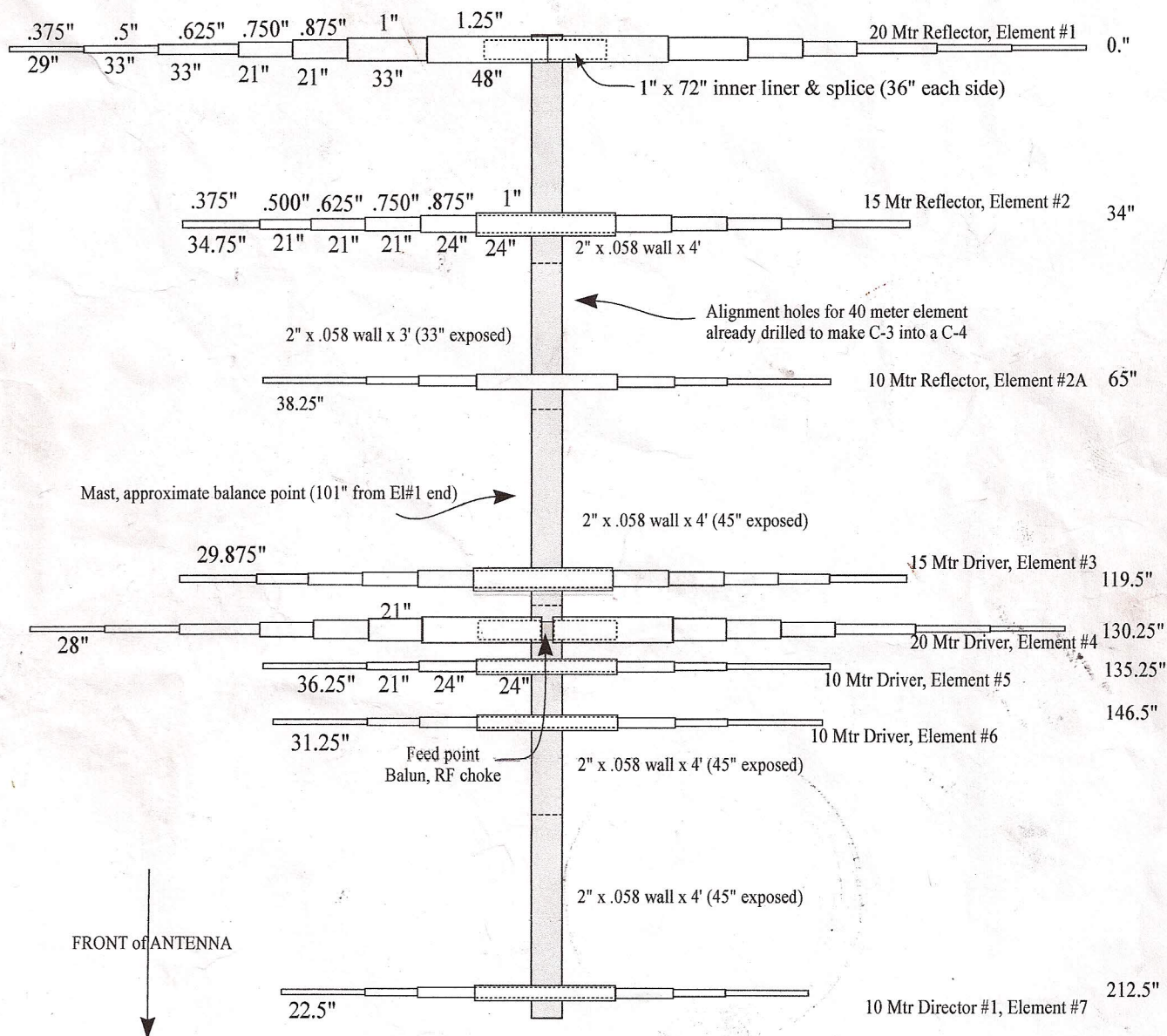
Qty / Part	Rev	Description	Reference Designators	Type / Lev
2 26-1011		1 -1/4" x 4" PVC sleeve		L3
0.25 25-1002		1 1/4" Sched 40 PVC 10ft		L4
1 11-1002	6	Easy-On Mast Mount assy		Product L2
5 01-1020		5/16-18x1" SS hexbolt		Product L3
4 01-1024		5/16" SS flat washer		Product L3
5 01-1026		5/16 stainless split lock washer		Product L3
4 01-1027		5/16-18 SS hex nut		Product L3
8 01-1035		3/8" SS split lock washer		Product L3
8 01-1036		3/8-16 316 SS hexhd Nut		Product L3
4 01-1045		2" x 3/8-16 x 4, U bolts and saddles, zinc		Product L3
2 01-1079		4" x 8" Plate, Easy-on Mounting		Product L3
0 01-1141		2" x 3/8-16 x 4, U bolts and saddles, SS 304	Optional Stainless Steel	Product L3
2 20-1038	1	Cut tube .058" x 2.000" x 6'		Product L2
6 16-2014		6063-T832 Drawn Aluminum tubing .058"x 2.000", cost/ft		L3
1 20-1039	1	Cut tube .125" x 2.000" x 6'		Product L2
6 16-2016		6061-T6 Extruded Aluminum tubing 0.125"x 2.000", cost/ft		Product L3
1 39-4010		Noalox and brush		Product L1

End of BOM

Force 12

C-3E/H

7 Element, 20-15-10 (17 & 12 secondary) Multi-Monobander



Boom is 18' x 2" OD

Windload: 7.5sqft
Weight: 51 pounds
Power Rating: 5KW
Boom Length: 18'
Turning Radius: 19.8'
Wind Survival 120 mph.

Feed system: 1 feedline with 1:1 balun or RF choke
Direct 50 ohm feed

Note: 20 & 15 mtr element brackets are 4"x8", 10 mtr are 3"x6"

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