

Mobile Communications

ANTENNA SYSTEMS



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DESCRIPTION

Antenna systems are generally installed by crews with specialized equipment and skills for installing antennas and working on antenna towers. This manual includes assembly drawings that provide information to assemble complete antenna systems (with vendor options) for radio station equipment operating in the VHF. UHF, 800 MHz, and 900 MHz frequency bands. System configurations addressed include both conventional and trunked radio systems as well as auxiliary receivers. Upon completing the installation, a physical inspection of the antenna system should be made to verify that all connections are made and secure.

INSTALLATION

Coaxial cable and connectors are supplied separately in bulk and must be cut to length and terminated in the field. Select the appropriate antenna system configuration from the drawings included in this manual. Begin at the point where the antenna cable enters the equipment room and assemble the necessary cables from the entry point to the individual TX and Rx. first measure to determine the correct length when the cable is routed from the repeater to the RF equipment via the cabinet top ducts then terminate with the proper connectors as shown on the antenna system assembly diagram. refer also to the station transmitter manual for general information pertaining to the trunked repeater.

attachment it is recommended that an Andrew "EASIAX" cutting tool be used when terminating the coaxial cable.

In order to cut the coaxial cable properly for easy connector

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ANTENNA SYSTEM INSPECTION

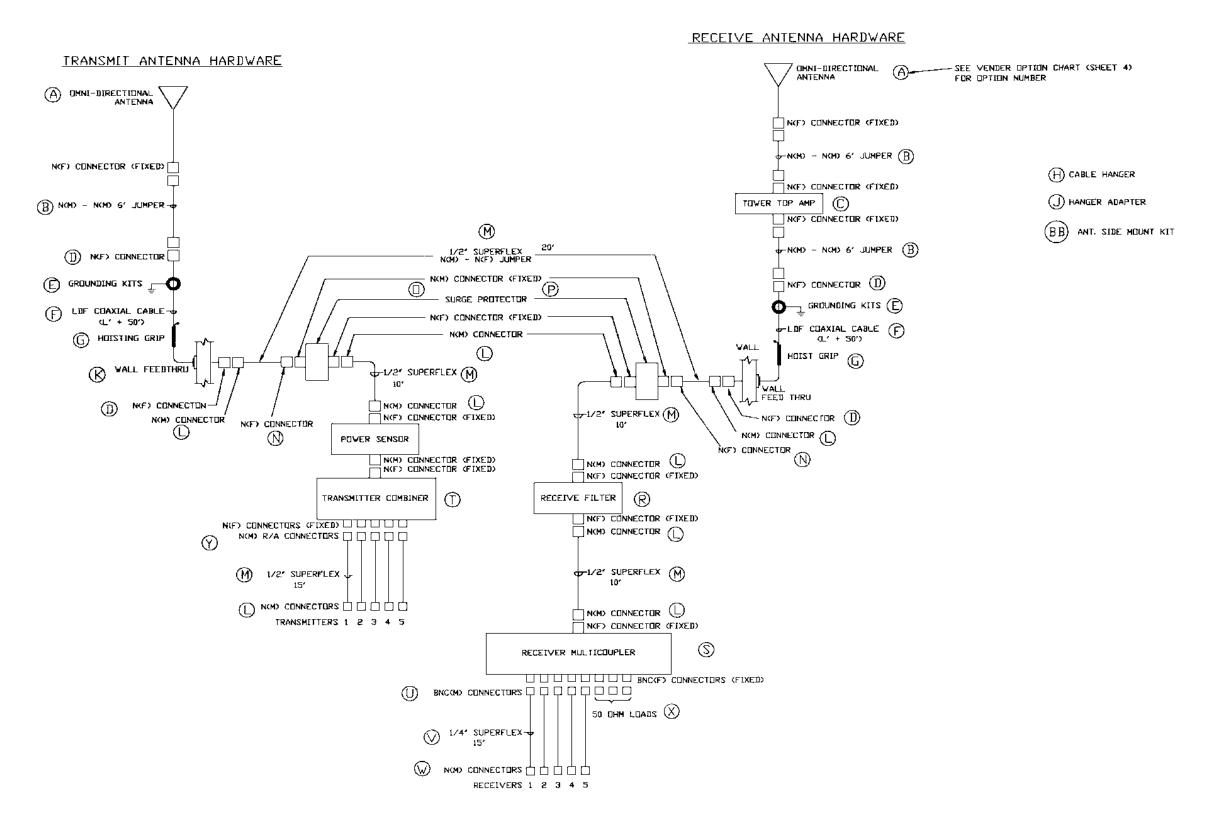
Each transmitter and receiver antenna system must be inspected per the following procedure.

This inspection is to verify proper installation of the antenna system components and may be accomplished using field glasses from various positions on the ground to view the antenna system. Complete one data sheet for each antenna at the site. A typical data sheet is shown in Figure 1.

- Record the make of antenna.
- Record the type of antenna: omni or directional.
- Record the design gain of the antenna.
- If the antenna is directional, record the bearing of the main lobe. If it is omni, write "Omni" in the data entry line.
- Record the height of the antenna above ground.
- Confirm that cable hoisting grips were installed as required to prevent damage to the coaxial cable. Hoisting grips should be installed at the antenna end of the cable plus one for each 200 ft of cable length.
- Confirm the cable is secured to the tower at intervals which do not exceed 3 feet.
- Confirm the cable is grounded at the top of the tower.
- Confirm the cable is grounded at the point where it leaves the tower.
- 10. Confirm the cable is grounded at the point where it enters the building.

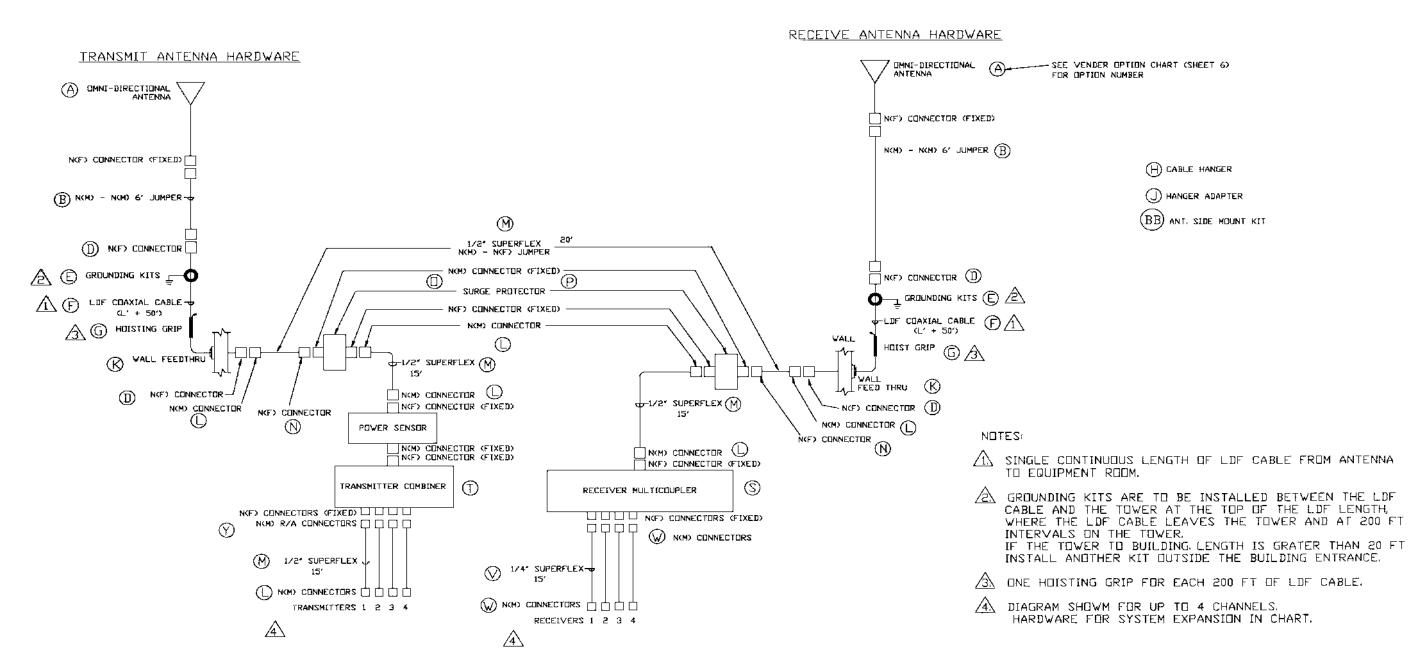
	DATE	
	TECHNICIAN	
	SITE	
	ANTENNA NO	
ANTENNA TESTS		
1. Make of antenna		
2. Type of antenna		
3. Design gain of antenna		dB
4. Bearing of antenna		·
5. Height of antenna above ground		Ft.
6. Are hoisting grips installed as specified?		
7. Is askin assumed to town at ansaified intervals?		
7. Is cable secured to tower at specified intervals?		
8. Is cable grounded at top of tower?		
o. Is capie grounded at top of tower.		
9. Is cable grounded at bottom of tower?		
C		
10. Is the cable grounded at the point where the cable		
enters the building?		·
11. Transmission paths OK?		
12. Is cable feed through properly installed?		
13. Are coaxial connectors weather sealed?		
14. Cable automore meether and 1919		
14. Cable entrance weather sealed?		
	DATA SHEET 1	

SHEET 1 OF 1



UHF/800 MHz ANTENNA SYSTEM (With Vendor Options)

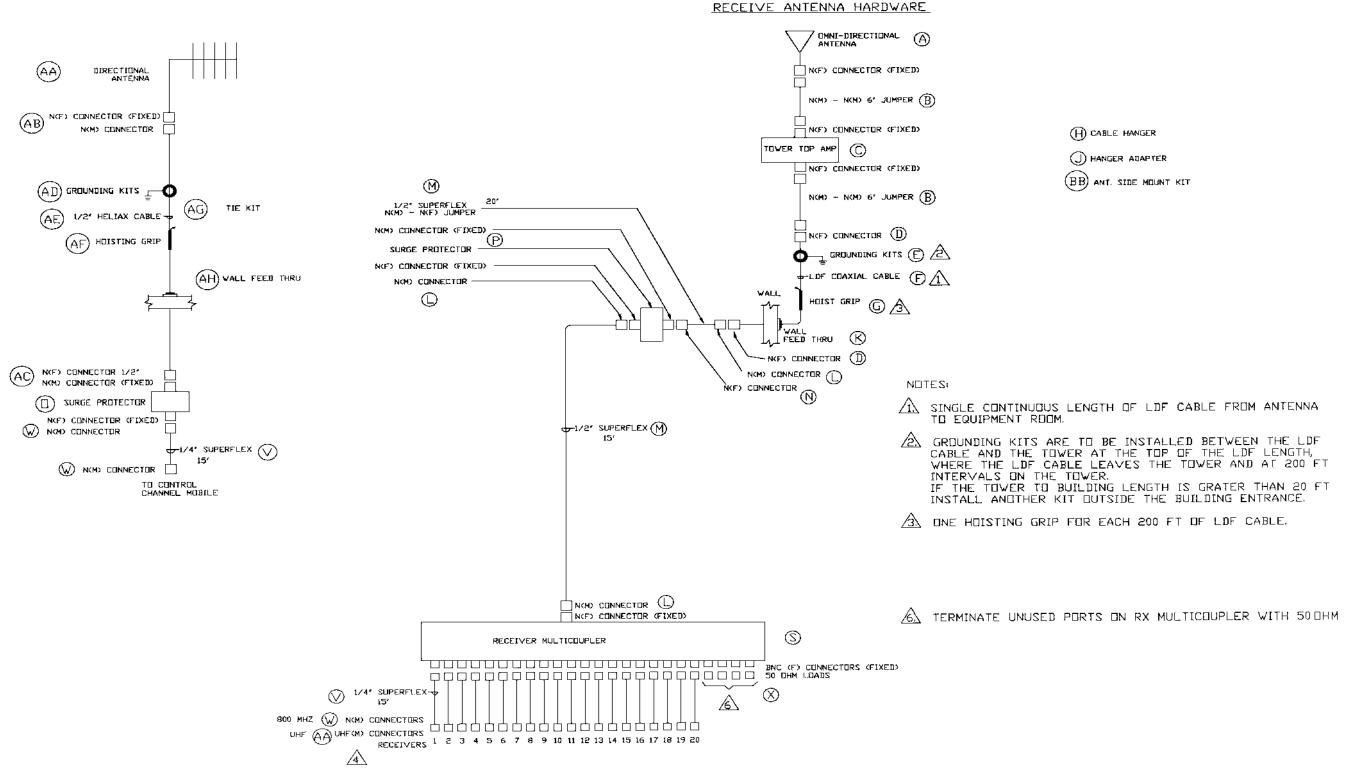
(19D904223 Sh. 1, Rev. 1)



SYSTEM EXPANSION CHART									
	TR	ANSMIT		R	ECEIVE				
NID CHAN	L CHAN ANT QTY		□MΒ	ANT QTY	RX MULI	ICOUPLER			
ING. CHAIN	MINI OXII	4 CHAN	8 CHAN	MIKI OKII	4 CHAN	8 CHAN			
4	1 1			1	1				
8	1		1	ĺ		1			
15	2	1	1	2	2 t				
16	2		a	2		2			
20	3	1	2	3	3 1				

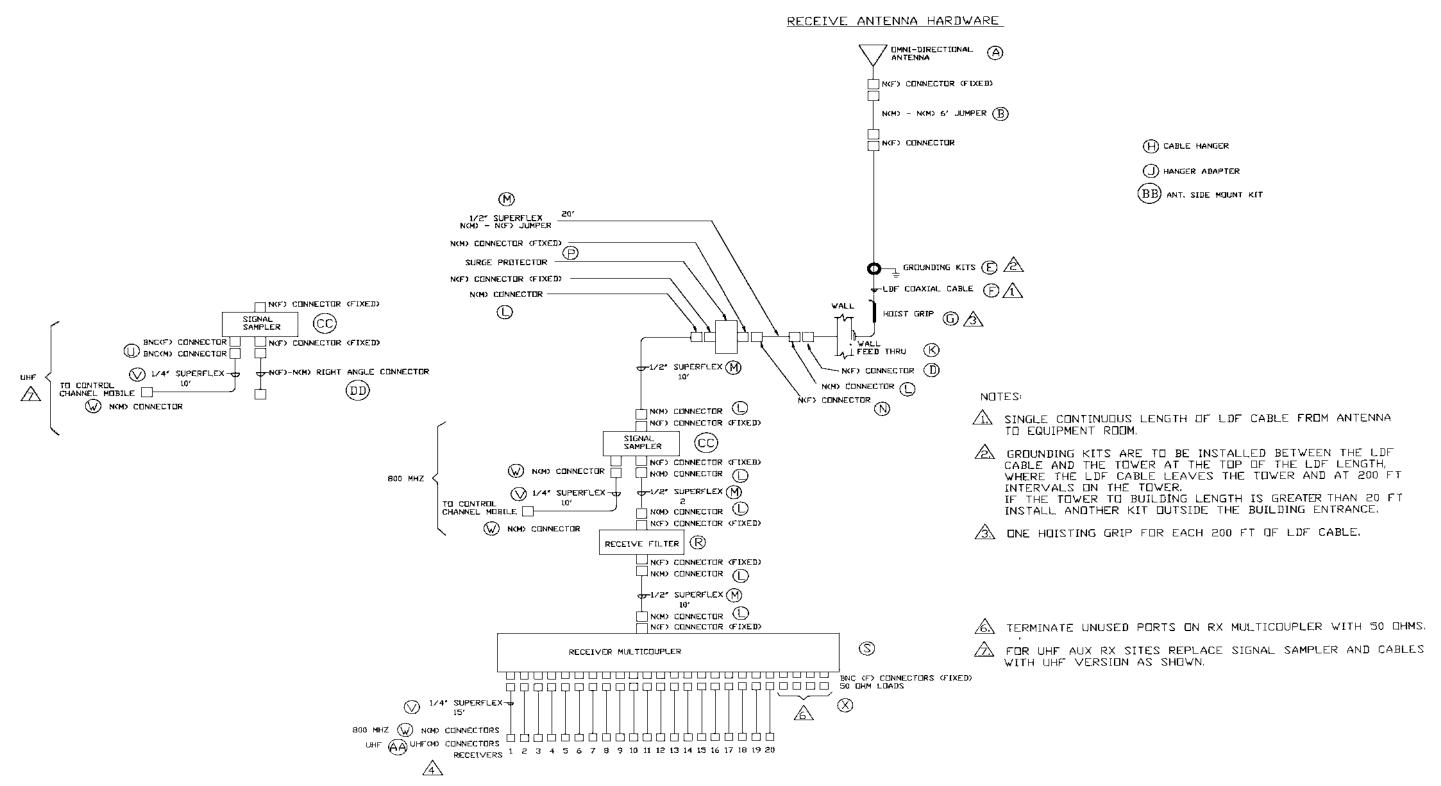
VHF ANTENNA SYSTEM (136-174 MHz) (With Vendor Options)

(19D904223 Sh. 2 Rev. 0)



800 MHz AUXILIARY RECEIVER SITE (With Vendor Options and Tower Top Amplifier)

(19D904223 Sh. 3 Rev. 1)



800 MHz AUXILIARY RECEIVER SITE (With Vendor Options and No Tower Top Amplifier)

(19D904223 Sh. 3A Rev. 0)

UMNI-BIRECTIONAL ANTENNA SEE VENDER OPTION CHART (SHEET 4) N(F) CONNECTOR (FIXED) NOW - NOW 6' JUMPER (B) \bigcirc 1/2" SUPERFLEX NCM) - NCF) JUMPER N(M) CONNECTOR (FIXED) TINGS CONNECTOR (D) SURGE PROTECTOR GROUNDING KITS (E) 🖄 N(F) CONNECTOR (FIXED) LDF CCIAXIAL CABLE FA NOW CONNECTOR VALL HOTZT GRIP (A) VALL FEED THRU 1/2' SUPERFLEX (M) - KF) CONNECTOR (D) ' NKM) CONNECTOR NGF) CONNECTOR (N) HONOR CONNECTOR (L) NKF) CONNECTOR (FIXED) BNC (M) CENNECTER SIGNAL SAMPLER NO CONNECTOR (MIXED) 1/2' SUPERFLEX 151 N(F)-N(M) ADAPTER (DD) TO CONTROL CHANNEL MOBILE NKF) CONNECTOR (FIXED) RECEIVER MULTICUUPLER QQQQ (C) W NKM) CONNECTORS V 1/4' SUPERFLEX-(AA) UHF(M) CONNECTORS (C C RECEIVERS 1 2 3 4 <u> 4</u>

RECEIVE ANTENNA HARDWARE

NOTES: 1 SINGLE CONTINUOUS LENGTH OF LDF CABLE FROM ANTENNA TO EQUIPMENT ROOM.

(H) CABLE HANGER

HANGER ADAPTER (BB) ANT. SIDE MOUNT KIT

GROUNDING KITS ARE TO BE INSTALLED BETWEEN THE LDF CABLE AND THE TOWER AT THE TOP OF THE LDF LENGTH, WHERE THE LDF CABLE LEAVES THE TOWER AND AT 200 FT INTERVALS ON THE TOWER.
IF THE TOWER TO BUILDING LENGTH IS GRATER THAN 20 FT INSTALL ANOTHER KIT DUTSIDE THE BUILDING ENTRANCE.

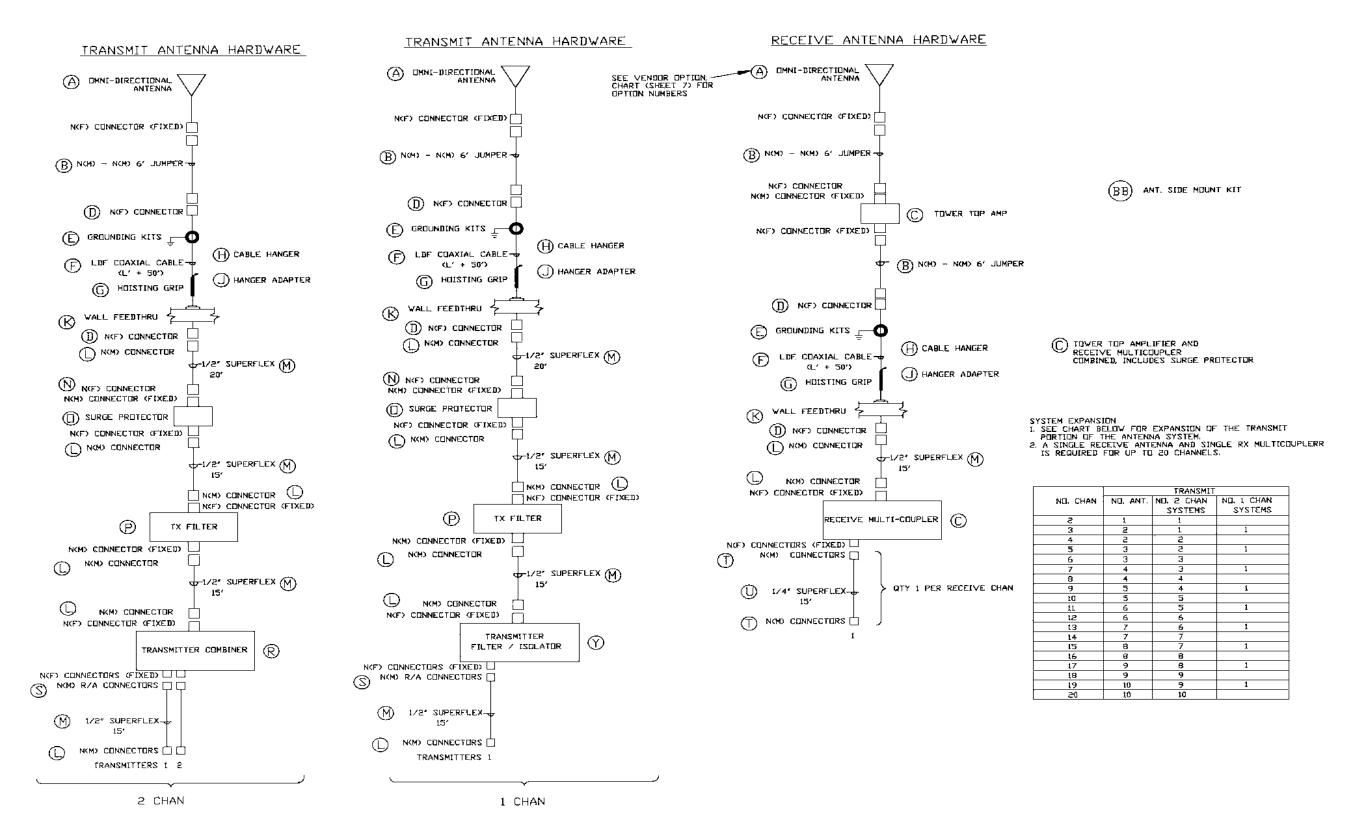
A DNE HOISTING GRIP FOR EACH 200 FT OF LDF CABLE.

DIAGRAM SHOWM FOR UP TO 4 CHANNELS, HARDWARE FOR SYSTEM EXPANSION IN CHART,

SYSTEM EXPANSION CHART RECEIVE RX MULTICOUPLER NO. CHAN ANT QTY 4 CHAN 8 CHAN 16 20

VHF AUXILIARY RECEIVER SITE (136-174 MHz) (With Vendor Options)

(19D904223 Sh. 4 Rev. 0)



900 MHz AUXILIARY RECEIVER SITE (With Vendor Options)

(19D904223 Sh. 5 Rev. 0)

VENDOR OPTION LISTING FOR TRUNKED REPEATER AND AUX RECEIVER SITES

		7/8" COAXIAL CABLE			1 5/8° COAXIAL CABLE								
		140 MHZ	160 MHZ	400 MHZ	450 MHZ	800	MHZ	140 MHZ	160 MHZ	400 MHZ	450 MHZ	800 MHZ	1
KEY	DESCRIPTIONS	170 MILZ	TOO WITE,	400 MILE	100 141112	W/TTA	W/O/TIA	TTO WITE	100 (411)2	400 Wiriz	700 MIIIZ	W/O/TTA	KEY
A	TX AND RX ANTENNA	7912	7912	7286	7284	7412	7412	7912	7912	7286	7284	7412	A
8	COAXIAL CABLE JUMPER N(M)-N(M)	PART OF ANT.	PART OF ANT.	7736	7736	7736	7736		PART OF ANT.		7736	7736	B
Č	TOWER TOP AMP	NONE	NONE	NONE	NONE	7272 +	NONE	NONE.	NONE	NONE	NONE.	NONE	c
<u> </u>	CONN N(F) LDF CABLE	7776	7776	7776	7776	7776	7776	7781	7781	7781	7781	7781	ă
E	COAX GROUNDING KIT	7741	7741	7741	7741	7741	7741	7742	7742	7742	7742	7742	E.
F	LDF COAXIAL CABLE	7775	7775	7775	7775	7775	7775	7780	7780	7780	7780	7780	F
Ġ	HOISTING GRIP	7744	7744	7744	7744	7744	7744	7745	7745	7745	7745	7745	Ġ
н	COAXIAL CABLE HANGER	7711	1 1111	*, , , ,	7711	,,,,	77.11		11.10	,,,,,	77,12	,,,,,,,	H
''	-SNAP IN	7904	7904	7904	7904	7904	7904	7905	7905	7905	7905	7905	ł ''
	-SCREW ON	7748	7748	7748	7748	7748	7748	7749	7749	7749	7749	7749	t
J	HANGER ADAPTER	7740	7770	7770	7,740	7770	7770	/ / Та	7773	1175	7773	7773	J
<u> </u>	-SCREW ON FOR ANGLE MEMBER	7750	7750	7750	7750	7750	7750	7750	7750	7750	7750	7750	l "
	-SCREW ON FOR ROUND MEMBER	7906 FOR 2"						THER 7/8" OR		7730	7730	7730	-
			7911	7911	7911	7911	7911	7911	7911	7911	7911	7911	-
<u> </u>	-3/8" HARDWARE KIT FOR FLAT SURFACE WALL/ROOF FEED THRU	7911	/9+1	/311	/3/11	/911	/911	/311	/3/14	/211	7914	/911	К
к		7795	7795	7795	7795	7795	7795	7796	7796	7796	7796	7796	l
	-SINGLE BOOT AND PLATE	7/95		7795 7900	7/95 7900	7900	7900	7/96 7901	796	7/96 7901	7/96 7901	7/96 7901	1
	-4" BOOT FOR MULTIPLE PLATE		7900	7900 7902		7900			7901 7903		7901 7903	7901 7903	4
	-5" BOOT FOR MULTIPLE PLATE	7902	7902		7902		7902	7903		7903			
<u> </u>	CONN N(M) FOR 1/2" SF CABLE	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723	7723	L .
M	1/2" SUPER FLEX COAXIAL CABLE	7722	7722	7722	7722	7722	7722	7722	7722	7722	7722	7722	M
N	CONN N(F) FOR 1/2" SF CABLE	7724	7724	7724	7724	7724	7724	7724	7724	7724	7724	7724	N
0	TX SURGE PROTECTOR												0
	-FLANGE MOUNT (STANDARD)	7242	7242	7242	7242	7240	7240	7242	7242	7242	7242	7240	
	-BULKHEAD MOUNT (OPTIONAL)	NA	NA	NA	NA	7909	7909	NA	NA NA	NA	NA	7909	
Ρ	RX SURGE PROTECTOR	7242	7242	7242	7242	7241	7240	7242	7242	7242	7242	7240	Р
R	RX FILTER	NA	NA	7262	7291/92	NA	7248	NA	NA	7262	7291/92	7248	R
\$	RX MULTI COUPLER												S
	-4 CHANNEL	7915	7915	NA	NA	NA	NA	7915	7915	NA	NA	NA	
	-8 CHANNEL	7916	7916	7263 +	7263 +	7246 +	7246 +	7916	7916	7263 +	7263 +	7246 +	
	-12 CHANNEL	NA	NA	7264 +	7264 +	7247 +	7247 +	NA	NA.	7264 +	7264 +	7247 +	
	−16 CHANNEL	NA NA	NA	7264 +	7264 +	7275 +	7275 +	NA	NA	7264 +	7264 +	7275 +	
	-20 CHANNEL	NA	NA	7281 +	7281 +	7276 +	7276 +	NA	NA	7281 +	7281 +	7276 +	
Ţ	TX COMBINER												Ţ
	-4 CHANNEL	7913	7913	NA	NA .	NA.	NA	7913	7913	NA	NA	NA .	
ļ	-5 CHANNEL	NA	NA	7278	7278	7224	7224	NA	NA	7278	7278	7224	
	-8 CHANNEL	7914	7914	NA	NA	NA	NA	7914	7914	NA	NA	NA]
	-10 CHANNEL	NA	NA	7279	7279	7225	7225	NA	NA	7279	7279	7225	
U	CONN BNC (M)	NA	NA	7797	7797	7797	7797	7797	7797	7797	7797	7797	U
٧	1/4" SF COAXIAL CABLE	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	٧
W	CONN N(M) FOR 1/4" SF CABLE	7720	7720	7720	7720	7720	7720	7720	7720	7720	7720	7720	W
Х	RX MULTICOUPLER LOAD RESISTOR	NA	NA	7228	7228	7228	7228	NA	NA	7228	7228	7228	Х
Y	CONN RA N (M) FOR 1/2" SF CABLE	7726	7726	7726	7726	7726	7726	7726	7726	7726	7726	7726	Ÿ
<u> </u>	1,												
AA	CONN UHF (M) FOR 1/4" SF CABLE	7721	7721	7721	7721	NA	NA	7721	7721	7721	7721	NA	AA
BB	ANTENNA SIDE MOUNT KIT	<u> </u>				T				· · · ·	· · · - ·		BB
l	-FOR ROUND TOWER MEMBER	7699	7699	7699	7699	7699	7699	7699	7699	7699	7699	7699	1
1	-FOR ANGLE TOWER MEMBER	7469	7469	7469	7469	7469	7469	7469	7469	7469	7469	7469	1
CC	SAMPLER	ARCN3K	ARCN3K	ARCN3K	ARCN3K	ARCN3L	ARCN3L	ARCN3K	ARCN3K	ARCN3K	ARCN3K	ARCN3L	cc
DD	N(M)-N(F) RIGHT ANGLE ADAPTER	7.11011011	Allonon	, ,((()(10))	7 11 (0) 10 1	NA	NA NA	CHONON	/11/01/01/	MONOR	FUNDIN	NA	DD
	I wind with those whom they	± ±/	CONVERT ANT	ENNA SYSTEM	I FROM	1771] 1873		l	1		1471	1 50
			20VAC TO 230 \										
						-							
		CHANGE 120VAC		CHANG	E TO C MODEL								
		1ZUVAC	MODEL	ZJUVAI	WICHEL	4							

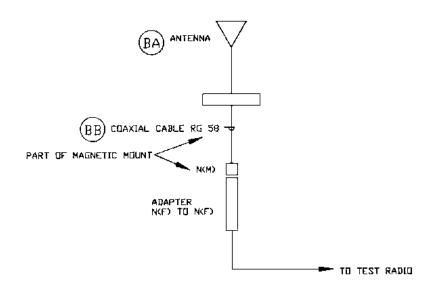
CHANGE FROM CHANGE TO 230VAC MODEL 7246 7244 7247 7245 7266 7264 7259 7272 7274 7275 7267 7276 7281 7280

VENDOR OPTION TABLE Repeater & Auxiliary Receivers VHF/UHF/800 MHz

(19D904223 Sh. 6 Rev. 1)

VENDOR OPTION LISTING FOR TRUNKED REPEATER 900 MHZ SITES

		WITH TOWER TO	OP AMP	W/O TOWER TOP AMP		
KEY	DESCRIPTIONS	7/8	1 5/8	7/8	1 5/8	
A	ANTENNA	7598	7598	7598	7598	
В	6' JUMPER N(M) - N(M)	7736	7736	7736	7736	
С	TOWER TOP AMP		,,,,,,,	17.00	,,,,,,	
	4 CHANNEL	7866	7866	NONE	NONE	
	8 CHANNEL	7867	7867	NONE	NONE	
	12 CHANNEL	7868	7868	NONE	NONE	
	16 CHANNEL	7869	7869	NONE	NONE	
	20 CHANNEL	7870	7870	NONE	NONE	
D	CONN N(F) LDF CABLE	7776	7781	7776	7781	
Ē	COAX GND KIT	7741	7742	7741	7742	
F	LDF COAXIAL CABLE	7775	7780	7775	7780	
G	HOISTING GRIP	7744	7745	7744	7745	
H	COAXIAL CABLE HANGER	7771	7770	//	7770	
••	-SNAP IN	7904	7905	7904	7905	
	-SCREW ON	7748	7749	7748	7749	
J	HANGER ADAPTER	7,730	1173	,,,,,	, , T-2	
•	-SCREW ON FOR ANGLE MEMBER	7750	7750	7750	7750	
				DIA. OR 7908 F		
	-3/8" HARDWARE KIT FOR FLAT SURFACE	7911	7911	7911	7911	
K	WALL/ROOF FEED THRU	7311	7311	7311	7911	
'`	-SINGLE BOOT AND PLATE	7795	7796	7795	7796	
	-4" BOOT FOR MULTIPLE PLATE	7900	7901	7900	7901	
	-5" BOOT FOR MULTIPLE PLATE	7902	7903	7902	7903	
L	CONN N(M) FOR 1/2" SF CABLE	7723	7723	7723	7723	
M	1/2" SUPER FLEX COAXIAL CABLE	7722	7722	7722		
N	CONN N(F) FOR 1/2" SF CABLE	7724	7724	7724	7722	
0	TX SURGE PROTECTOR	1124	1124	1124	7724	
U	-FLANGE MOUNT (STANDARD)	7874	7071	7974	7874	
	-PLANGE MOUNT (STANDARD) -BULKHEAD MOUNT (OPTIONAL)		7874	7874	7874	
_		7910	7910	7910	7910	
P	TX BP FILTER	7863	7863	7863	7863	
R	TX COMB 2 CHAN	7855	7855	7855	7855	
S	RIGHT ANGLE N(M)	7726	7726	7726	7726	
•	CONN N(M) 1/4" SF	7720	7720	7720	7720	
U V	COAX 1/4" SF	7719	7719	7719	7719	
	RX MC TERM LOAD	NEW	NEW	7728	7728	
W	RX SURGE PROTECTOR	NA	NA	7873	7873	
Х	RX MULTI COUPLER					
	-5 CHANNEL	NA	NA	7859	7859	
	-10 CHANNEL	NA	NA	7860	7860	
	-15 CHANNEL	NA	NA	7875	7875	
	-20 CHANNEL	NA	NA	7876	7876	
Υ	TX IM SUP PANEL	7919	7919	7919	7919	
	USE TX IM PANEL TO CONNECT A SINGLE XMT	R TO ANT. (IF I	WO CHANNEL US	TX COMBINER).		
88	ANTENNA SIDE MOUNT KIT					
	-FOR ROUND TOWER MEMBER	7699	7699	7699	7699	
	-FOR ANGLE TOWER MEMBER	7469	7469	7469	7469	



OPTION REFERENCE FOR TEST UNIT ELEMENTS

		136-174 MHZ	400 MHZ	450 MHZ	800 MHZ	900 MHZ
BA	ANTENNA	7140	7209	7209	7103	7143
BB	MAGNETIC MOUNT	7141	7208	7208	7208	7878

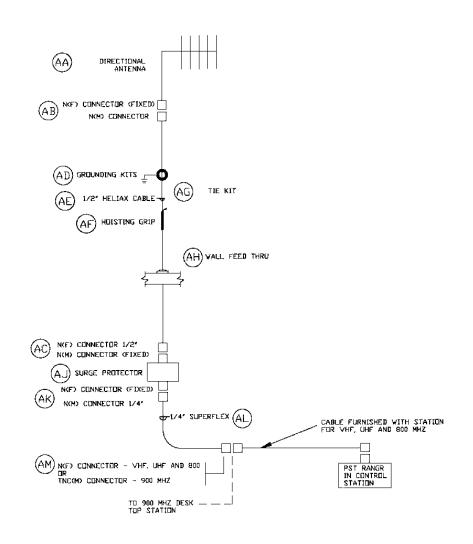
VENDOR OPTION TABLE Trunked Repeaters 900 MHz

(19D904223 Sh. 7, Rev.0)

ANTENNA SYSTEM (With Vendor Options Test Unit)

(19D904223 Sh. 8, Rev.1)

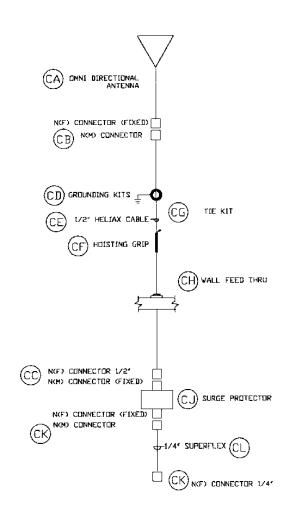
LBI-38983 ANTENNA ASSEMBLY DRAWINGS



	VENDER OPTION L	ISTING FOR	TRUNKED	CONTROL	2NDITAT2		
	DESCRIPTION	140 MHZ	160 MHZ	400 MHZ	450 MHZ	800 MHZ	900 MHZ
AA	DIRECTIONAL ANTENNA	7576	7576	7880	7287	7269	7269
AB	CONNECTOR N(M) FOR 1/2" HELIAX	NA	NA	NA	NA	7774	7774
	OR N(F) FOR 1/2' HELIAX	7771	7771	7771	7771	NA	NA
AC	CONNECTOR N(F) FOR 1/2" HELIAX	7771	7771	7771	7771	7771	7771
AD	GROUND KIT 1/2" HELIAX	7506	7506	7506	7506	7506	7506
ΑE	LDF HELIAX	7770	7770	7770	7770	7770	7770
AF	HOIST GRIP	7743	7743	7743	7743	7743	7743
AG	TIE KIT	7747	7747	7747	7747	7747	7747
AH	WALL FEED THRU	7881	7881	7881	7881	7881	7881
AJ	SURGE PROTECTOR	7242	7242	7242	7242	7240	7874
AK	CONNECTOR N(M) 1/4' SF	7720	7720	7720	7720	7720	7720
AL	COAX 1/4" SF	7719	7719	7719	7719	7719	7719
AM	CONNECTOR N(M): 1/4" SF	7920	7920	7920	7920	7920	NA
	OR CONNECTOR INCOMO 1/4' SE	NA	NA	NA	NA	NA	7921

ANTENNA SYSTEM (With Vendor Options Control Station)

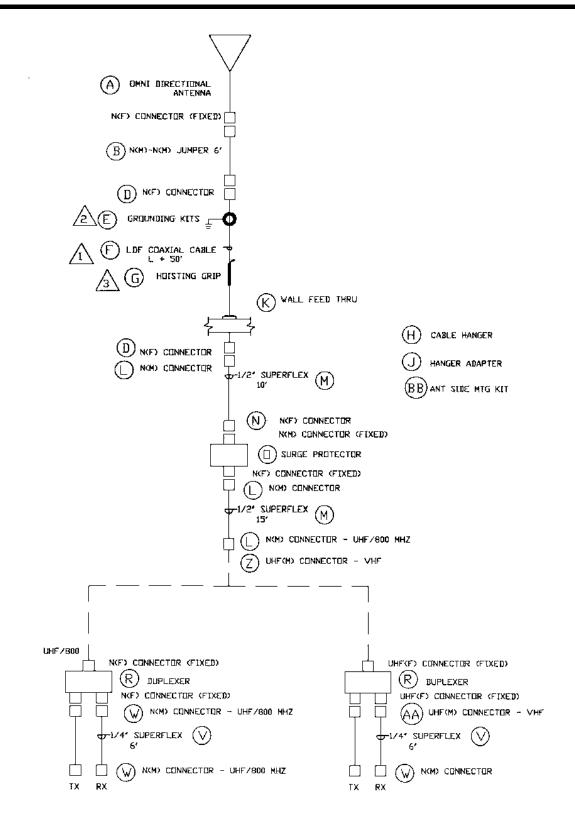
(19D904223 Sh. 9, Rev.1)



	VENDER OPTION L	ISTING FOR	SIMULCAS	T ALIGNME			
	DESCRIPTION	140 MHZ	160 MHZ	400 MHZ	450 MHZ	800 MHZ	900 MHZ
CA	OMNI DIRECTIONAL ANTENNA	7912	7912	7286	7284	7412	7598
CB	CONNECTOR N(M) FOR 1/2' HELIAX	NA	NA	NA	NA	7774	777 4
CC	CONNECTOR NOT FOR 1/2" HELIAX	777t	7771	7771	7771	NA	NA
CD	GROUND KIT 1/2' HELIAX	7506	7506	7506	7506	7506	7506
CE	LDF 1/2' HELIAX	7770	7770	7770	7770	7770	7770
CF	HOIST GRIP	7743	7743	7743	7743	7743	7743
CG	TIE KIT	7747	7747	7747	7747	7747	7747
CH	WALL FEED THRU	7881	7881	7881	7881	7881	7881
CJ	SURGE PRUTECTOR	7242	7242	7242	7242	7240	7874
£K	CONNECTOR NAME 1/4' SF	7720	7720	7720	7720	7720	7720
CL.	COAX 1/4" SF	7719	7719	7719	7719	7719	7719
CM	SIDE MOUNT KIT						
	-FOR ROUND MEMBER	7699	7699	7699	7699	7699	7699
	-FOR ANGLE MEMBER	7469	7469	7469	7469	7469	7469

ANTENNA SYSTEM Alignment Receiver With Vendor Options

(19D904223 Sh. 10, Rev.1)



VENDOR OPTION LISTING FOR SCAT REPEATER SITES

		7/8' COAXIAL CABLE					
		140 MHZ	160 MHZ	400 MHZ	450 MHZ	800 MHZ	
KEY	DESCRIPTIONS						
Α	TX AND RX ANTENNA	7912	7912	7286	7284	7412	
В	COAXIAL CABLE JUMPER N(M)-N(M)	PART OF ANT.	PART OF ANT	7736	7736	7736	
D	CONN NOT LOF CABLE	7776	7776	7776	7776	7776	
E	COAX GROUNDING KIT	7741	7741	7741	7741	7741	
F	LDF CDAXIAL CABLE	7775	7775	7775	7775	7775	
G	HOISTING GRIP	7744	7744	7744	7744	7744	
Н	COAXIAL CABLE HANGER						
	-SNAP IN	7904	7904	7904	7904	7904	
	-SCREW IN	7748	7748	7748	7748	7748	
J	HANGER ADAPTER			,			
	-SCREW ON FOR ANGLE MEMBER	7750	7750	7750	7750	7750	
	-SCREW ON FOR ROUND MEMBER	7906 FOR 2*	DIA 7907 FOR	3" DIA 790	8 FOR 4" I	DΙΑ	
	-3/8' HARDWARE KIT FOR FLAT SURFACE	7911	7911	7911	7911	7911	
K	WALL/ROOF FEEED THRU						
	-SINGLE BOOT AND PLATE	7795	7795	7795	7795	7795	
L	CONN N(M) FOR 1/2" SF CABLE	7723	7723	7723	7723	7723	
М	1/2' SUPER FLEX COAXIAL CABLE	7722	7722	7722	7722	7722	
N	CONN N(F) FOR 1/2" SF CABLE	7724	7724	7724	7724	7724	
0	TX SURGE PROTECTOR						
	-FLANGE MOUNT (STANDARD)	7242	7242	7242	7242	7240	
	-BULKHEAD MOUNT (OPTIONAL)	NA	NA NA	NA	NA	7909	
			7242	7242	7242	7660	
R	DUPLEXER	7651	7651	7656	7656	7656	
	MINIMUM FREQ, SPACING TX TO RX MHZ	2 MHZ	2 MHZ	3 MHZ	3 MHZ	45 MHZ	
V	1/4' SF COAXIAL CABLE	7719	7719	7719	7719	7719	
V	CONN N(M) FOR 1/4" SF CABLE	7720	7720	7720	7720	7720	
Z	CONN UHF (M) FOR 1/2" SF CABLE	7725	7725	NA	NA	NA	
AA	CONN UHF (M) FOR 1/4' SF CABLE	7721	7721	NA	NA	NA	
BB	ANTENNA SIDE MOUNT KIT						
	-FOR ROUND TOWER MEMBER	7699	7699	7699	7699	7699	
	-FOR ANGLE TOWER MEMBER	7469	7469	7469	7469	7469	

NOTES:

SINGLE CONTINUOUS LENGTH OF LDF CABLE FROM ANTENNA TO EQUIPMENT ROOM.

GROUNDING KITS ARE TO BE INSTALLED BETWEEN THE LOF CABLE AND THE TOWER AT THE TOP OF THE LOF LENGTH, WHERE THE LOF CABLE LEAVES THE TOWER AND AT 200 FT INTERVALS ON THE TOWER.

IF THE TOWER TO BUILDING LENGTH IS GREATER THAN 20 FT INSTALL ANOTHER KIT OUTSIDE THE BUILDING ENTRANCE.

A DNE HOISTING GRIP FOR EACH 200 FT OF LDF CABLE.

ANTENNA SYSTEM SCAT Site With Vendor Options

(19D904223 Sh. 11 Rev. 1)