Technical Bulletin

Rev. F

015

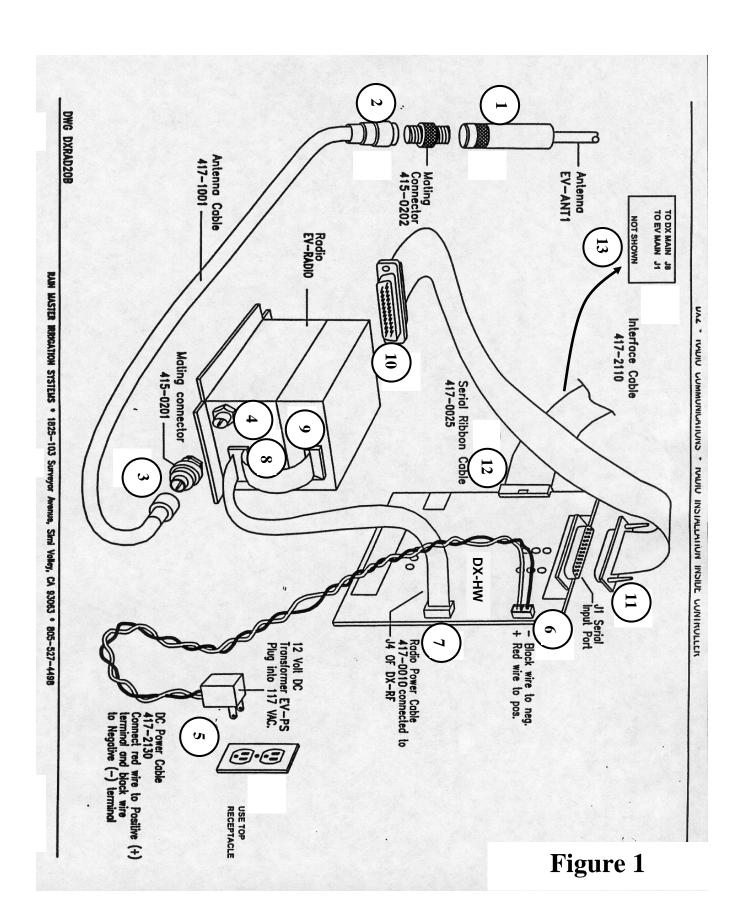
Page 1 of 4 Product Applicability: Engineering Release: Engineering Release Date: Distribution:				Field Radio Communication Failure Checklist for E.F. Johnson Radios	
			:	Evolution and Dx2 Controllers R. A. Olson June 20, 2003 APPROVED FOR GENERAL RELEASE	
		<u>(</u>		er with E.F. Johnson Radio tion or DX2 Controllers	
1)	Is Sub	Submaster power on?			
2)	Re-enter Submaster address and radio communication mode. The keys to press are shown below for Evolution and Evolution DX2 Controllers.				
	A)	QUIT	=	Pressing QUIT key will ensure you are starting at the base screen.	
	B)	F 1	=	Main Menu	
	C)	F 5	=	Set Up	
	D)	F4	=	Controller	
	E)	F4	=	Configuration	
	F)	F2	=	Acts As Submaster	
your Satellite , F1 = Radio/Wi			ellite, F	ct the appropriate "Submaster Communication Type" foi $1 = \text{Radio/Wire}, \boxed{\text{F 2}} = \text{Phone},$	
	H)	address	in the rang	er the appropriate "Address" for your Satellite. Enter an je of (0-255) and then press ENTER ill be displayed	



Bulletin No.

3)	Verify	ALL component connections.					
	A)	Antenna to radio, items (1-4) on attached drawing DXRAD20B (figure 1 of his document).					
	B)	2 Volt DC transformer (EV-PS), items (5- 6) on attached drawing XRAD20B (figure 1 of this document)					
		Do you measure +12VDC at the COMM Board J2 connector? Item #6 of DXRAD20B (figure 1 of this document)					
	C)	Radio connections, items (7–13) on attached drawing DXRAD20B (figure of this document)					
	D)	Does your COMM Board have a fuse?					
		 With Satellite power off, perform a continuity check on the fuse. Does the fuse check OK? 					
		 With Satellite power off, does the fuse seat properly in the holder? 					
		Be sure to turn Satellite power on when finished					
4)	Monit	Monitor DX-RF Board LED activity indicators per Figure 2 of this document.					
		 From the Rain Master Central PC, "Blue Panel operation", select the Satellite you wish to test. 					
		Press the "down arrow" key.					
		 Does the Controller Base Screen appear? 					
		Does an Error Code message appear?					
		 Repeat several times. Does it consistently communicate? Does it consistently fail? Make note of the Error Code Message. 					
		IF YOU ARE STILL UNABLE TO COMMUNICATION WITH THE SATELLITE, STOP. PLEASE CONTACT RAIN MASTER TECHNICAL SUPPORT AT (800) 777-1477.					

3910-B Royal Avenue Simi Valley, CA 93063 Tel: (805) 527-4498 Fax: (805) 527-2813



PCDX2-COMR

Communications Board for E.F. Johnson Radios

LED CONDITIONS



DTR	TXD	RTS
0	0	0

CTS	DCD	RXD
0	0	0

LED conditions with NO RADIO and/or NO EV-PS connected:

<u>SIGNAL</u>	<u>CONDITION</u>
DTR*	GREEN
TXD	RED
RTS	RED
CTS	WHITE
DCD	WHITE
RXD	WHITE

LED conditions with radio connected:

<u>SIGNAL</u>	CONDITION
DTR*	GREEN
TXD	RED
RTS	RED
CTS	RED
DCD	RED
RXD	RED

When communications are in process, the sequence is as follows:

<u>FROM</u>	<u>TO</u>	<u>THEN</u>
GREEN	GREEN	GREEN
RED	GREEN	RED
	GREEN RED RED RED RED RED	GREEN GREEN RED GREEN RED GREEN RED GREEN RED GREEN

^{*} DTR (Data Terminal Ready) is always asserted - GREEN

Figure 2

