

TABLE OF CONTENTS

SECTION	PAGE
CHAPTER 1 INTRODUCTION	
1.1 Manual Overview	1-1
1.2 Assembly Designation Numbers	1-1
1.3 Safety	1-1
1.4 Maintenance	1-2
1.5 Material Return Procedure	1-2
1.6 Limited One-Year Warranty for Axcera Products	1-3
 CHAPTER 2 SYSTEM DESCRIPTION & REMOTE CONTROL CONNECTIONS	
2.1 LX Series Power Amplifier Assembly Overview	2-1
2.1.1 Power Amplifier Module, 250 Watt	2-1
2.1.2 Power Supply Module Assembly	2-3
2.1.3 Front Panel LCD Display Screens	2-3
2.2 System Operation	2-3
2.2.1 Principles of Operation	2-4
2.3 Customer Remote Connections	2-5
 CHAPTER 3 SITE CONSIDERATIONS, INSTALLATION AND SETUP PROCEDURES	
3.1 Site Considerations	3-1
3.2 Unpacking the Chassis w/Modules, bandpass and trap filters	3-4
3.3 Installing the Chassis w/Modules and filters	3-4
3.4 AC Input	3-5
3.5 Setup and Operation	3-5
3.5.1 Input Connections	3-5
3.5.2 Front Panel Screens for the Exciter/Amplifier Chassis Assembly	3-7
3.5.3 Initial Turn On	3-14
 CHAPTER 4 CIRCUIT DESCRIPTIONS	
4.1 Power Amplifier Module	4-1
4.1.1 UHF Phase/Gain Board	4-1
4.1.2 150 Watt Driver Pallet Assembly	4-1
4.1.3 150 Watt Driver, Dual Output Board	4-1
4.1.4 UHF Module Assembly, RF Module Pallet, Philips	4-2
4.1.5 2 Way UHF Combiner Assembly	4-2
4.1.6 Amplifier Control Board	4-3
4.2 Power Supply Assembly	4-5
 CHAPTER 5 DETAILED ALIGNMENT PROCEDURES	
5.1 Module Replacement	5-1
5.1.1 Initial Test Setup	5-1
5.2 Innovator LX Series Exciter/Amplifier Chassis Assembly	5-2
5.2.1 Linearity Correction Adjustment	5-3
5.2.2 Frequency Response Delay Equalization Adjustment	5-4
5.2.3 Calibration of Forward Output Power Level	5-4
5.2.4 Calibration of Reflected Output Power Level	5-5
5.3 Bandpass Filter Assembly	5-5

TABLE OF CONTENTS - (Continued)

5.4 UHF Trap Filter Assembly 5-5
 5.4.1 The Effects of Tuning the Output Trap Filter 5-6

APPENDICES

APPENDIX A INNOVATOR LX SERIES SPECIFICATIONS

APPENDIX B DRAWINGS AND PARTS LISTS

FIGURE	LIST OF FIGURES	PAGE
3-1	1 kW Minimum Ventilation Configuration	3-4
3-2	Front and Rear View Reconnection Drawing	3-5
3-3	Rear View of LX Series Transmitter	3-6
4-1	UHF Amplifier Module, 250 Watts	4-2
5-1	Typical Red Field Spectrum	5-4

LIST OF TABLES		PAGE
TABLE		
2-1	LX Series Power Amplifier Assemblies	2-1
2-2	Power Amplifier Status Indicators	2-3
2-3	Power Amplifier Control Adjustments	2-3
2-4	Power Amplifier Sample	2-3
2-5	Pioneer Chassis Customer Remote Connections	2-5
3-1	Rear Chassis Connections for LX Series Transmitter	3-6
3-2	Menu 01 Splash Screen #1	3-7
3-3	Menu 02 Splash Screen #2	3-7
3-4	Menu 10 Main Screen.....	3-7
3-5	Menu 11 Error List Access Screen	3-8
3-6	Menu 12 Transmitter Device Data Access Screen.....	3-8
3-7	Menu 13 Transmitter Configuration Access Screen	3-8
3-8	Menu 20 Error List Display Screen	3-8
3-9	Menu 30 Transmitter Device Details Screen	3-9
3-10	Menu 30-1 System Details Screens.....	3-9
3-11	Transmitter Device Parameters Detail Screens	3-9
3-12	Menu 40 Transmitter Set Up: Power Raise/Lower Screen.....	3-10
3-13	Menu 40-1 Transmitter Set Up: Model Select Screen.....	3-10
3-14	Menu 40-2 Transmitter Set Up: Frequency Select Screen	3-11
3-15	Menu 40-3 Transmitter Set Up: Frequency Table Select Screen	3-11
3-16	Menu 40-4 Transmitter Set Up: IF Frequency Screen	3-11
3-17	Menu 40-5 Transmitter Set Up: Custom Frequency Select Screen.....	3-11
3-18	Menu 40-6 Transmitter Set Up: Xmtr. Set Up Serial Address Screen ..	3-12
3-19	Menu 40-7 Transmitter Set Up: Station ID Screen	3-12
3-20	Menu 40-8 Transmitter Set Up: System Visual Power Cal. Screen.....	3-12
3-21	Menu 40-9 Transmitter Set Up: System Aural Power Cal. Screen.....	3-12
3-22	Menu 40-10 Transmitter Set Up: System Rfltd. Power Cal. Screen.....	3-13
3-23	Menu 40-11 Transmitter Set Up: Fwrdr Pwr Fault Threshold Screen	3-13
3-24	Menu 40-12 Transmitter Set Up: Refl Power Fault Threshold Screen ..	3-13
3-25	Menu 40-13 Transmitter Set Up: Remote Commands Control Screen ..	3-13