

# TABLE OF CONTENTS

	Page
SWAN STANDARD MODEL 600-R RECEIVER . . . . .	2
Model 600-R Specifications . . . . .	2
SWAN MODEL 600-R CUSTOM RECEIVER . . . . .	4
Additional Specifications for 600-R Custom . . . . .	4
INTRODUCTION . . . . .	5
CIRCUIT THEORY . . . . .	5
SINGLE SIDEBAND RECEPTION . . . . .	8
Sideband Generation . . . . .	8
Single Sideband Reception . . . . .	8
INSTALLATION . . . . .	11
Power Supply . . . . .	11
Antenna . . . . .	11
Speaker Jack . . . . .	11
Headphones . . . . .	11
Cable Connections . . . . .	11
Interconnection Cabling with Swan Transceivers and Other Transmitters . . . . .	11
Carrier Synchronization . . . . .	11
OPERATION . . . . .	17
Control Functions . . . . .	17
Pre-Operating Adjustments . . . . .	18
Receiver Operation . . . . .	18
Receiver Tuning . . . . .	18
SSB Reception . . . . .	19
AM Reception . . . . .	19
CW Reception . . . . .	19
Frequency Shift Keying (FSK) – Slow Scan Television (SSTV) . . . . .	19
Frequency Calibration . . . . .	19
Tuning Higher or Lower Frequency Segments . . . . .	19
WWV Reception with 600-R/600-T/Swan Transceiver Combinations . . . . .	20
ALIGNMENT AND TROUBLESHOOTING . . . . .	23
Receiver Alignment . . . . .	23
Alternate Method of Receiver Alignment . . . . .	23
Crystal Calibrator Frequency Adjustment . . . . .	23
25 KC Multivibrator Adjustment . . . . .	24
S-Meter Adjustment . . . . .	24
BFO Oscillator (Carrier Frequency) Adjustment . . . . .	24
VFO Alignment . . . . .	24
LI06, 11.9 mc. Trap Adjustment . . . . .	24
600-R STANDARD AND CUSTOM MODELS – PARTS LIST . . . . .	31
600-R CUSTOM ADDITIONAL PARTS LIST . . . . .	34
NB-600 Noise Blanker . . . . .	34
I.C.A.F. Notcher-Peaker . . . . .	34

## LIST OF ILLUSTRATIONS

Figure 1. Receiver Block Diagram . . . . .	7
Figure 2. Interconnection Diagram 600-R to 600-T . . . . .	12
Figure 3. 350C/500C/500CX Interconnection Diagram . . . . .	13
Figure 4. 270/270B Interconnection Diagram . . . . .	14
Figure 5. Interconnection Cabling for Other Transmitters/Transceivers . . . . .	15
Figure 6. Rear View of 600-R . . . . .	26
Figure 7. Top View of 600-R . . . . .	27
Figure 8. Bottom View of 600-R . . . . .	28
Figure 9. Top View of 600-R Custom Receiver . . . . .	29