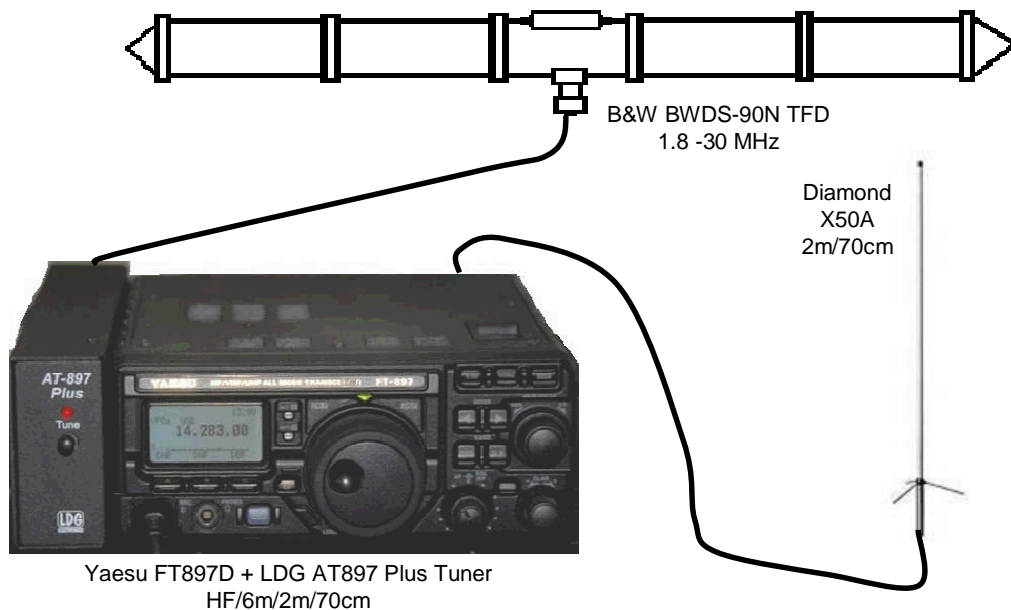


DCS Technical Team Repair/Installation Request



1.	Location(s)	Control #
	Carson Sheriff Station DCS Room 21356 S. Avalon Blvd. Carson, CA 90745	CAS-01 rev1
2.	Statement of the Problem(s)	
	<p>A. The connections of power supplies to the radios is not adequate. All 3 power supplies are Astron RS-20A which spec max continuous of 16 amps @ 12vdc. RS-20a's are connected as follows: PS#1 - FT897D requires 22 amps PS#2 - DR235 requires 8 amps PS#3 - IC2200 (15a), +FT8900 (8.5a) = 23.5 amps. Motorola CDM 1500 (13.5a) has its own power supply</p> <p>B. Any transmission from the FT897D on 10 meters blanks out the FT8900 on 6 meters. Radios themselves have good physical separation.</p> <p>C. Yaesu FT8900 does not have the antennas needed to support all 4 bands.</p>	
3.	Recommended Solution(s)	
	<p>A. Reassign and upgrade power supplies.</p> <ul style="list-style-type: none"> a. Install new Astron RS35A (25 amps cont) for the FT897D. b. Reassign RS-20A PS#1 across room stand-alone to IC2200. c. RS-20A PS#2 continues to power the DR235 – no change d. RS-20A PS#3 would then only carry FT8900. <p>B. Check coax and all connectors for leakage on HF feedline, tuner, and antenna from Yaesu FT-897D (10 meters).</p> <ul style="list-style-type: none"> a. Replace the HF antenna with a new B&W BWDS-90N antenna connected to the HF/50 MHz antenna port on the FT897D. Add a new LDG AT897 Plus Tuner. b. Also add a new Diamond X50A 2m/70cm antenna and connect to the 144/430 antenna port on the FT897D to complete its capability. See attached diagram. <p>C. Add a Diamond CP610 6m/10m dual band antenna, a Diamond X50A 2m/70cm dual band antenna and a Comet CF-530C duplexer to achieve the 4 band capability for the Yaesu FT8900. See attached diagram.</p>	
4.	Concurrences	Date
	Technical Team Contact	Jim Glancy, N-01, jbglancy@gmail.com
	DCO	Joe Lanphen, R-01, jlanphen@ca.rr.com
	Technical Ops Officer	Deane Bouvier, S-50, n5dq@arrl.net
5.	CFMB Approval	

HF Position



- HF bands with horizontal polarization to support NVIS
- Second antenna port for 2m/70cm dual band antenna



FT8900 for 6m and 10m Recommended Configuration

- Two dual band antennas and a duplexer to achieve 4 bands
- Supports 440 MHz

