

DCS Technical Team Repair/Installation Request

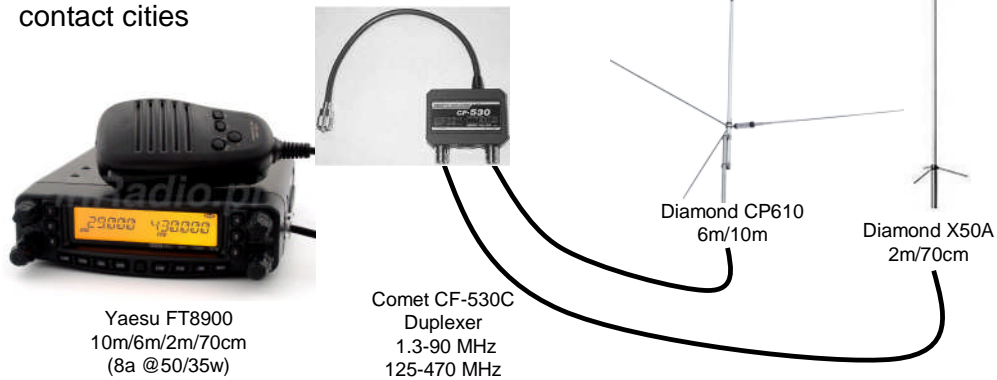


1.	Location(s)	Control #
	South LA Sheriff Station, Technology IT Room 1310 W. Imperial Highway, Los Angeles, California 90044	SLA-01
2.	Statement of the Problem(s)	
	<p>A. Two FT8900 quad band radios are installed each with single band antennas attached; one for 6m and one for 10m. The radios function on all bands but high SWR on the other 3 makes them unusable there. Without 440 capability, SLA can not communicate with its contact city radio organizations. [Note Gardena DCS operates on the Part 90 commercial UHF band].</p> <p>B. The FT897 HF radio attached to the DX-88 trap vertical antenna can't support NVIS. It also is not equipped with an antenna tuner.</p>	
3.	Recommended Solution(s)	
	<p>A. For each FT8900 radio, replace the single band antenna with two dual band antennas; namely a Diamond CP 610 for 6m and 10m and a Diamond X50A for 2m and 440. Add a Comet CF-530C duplexer to connect the antennas to the radio. This will also provide 440 capabilities to communicate with the contract cities. See attached diagram. [Consider Part 90 UHF radio and antenna to communicate with Gardena DCS].</p> <p>B. To provide NVIS with the FT897, add a B&W BWDS-90N terminated folded dipole and a LGD AT-897 tuner. Add a Diamond CX-210 antenna switch to connect the trap vertical and the folded dipole to the tuner. Consider adding the roof radial kit to the DX-88 to improve performance. Add a Diamond X50A to complete the radio capability. See attached diagram.</p>	
4.	Concurrences	Date
	Technical Team Contact	Deane Bouvier , S-50, n5dq@arrl.net
	DCO	None
	Technical Ops Officer	Deane Bouvier , S-50, n5dq@arrl.net
5.	CFMB Approval	



Two FT8900s for 6m and 10m Recommended Configuration

- Two dual band antennas and a duplexer to achieve 4 bands
- Supports 440 MHz to communicate with contact cities

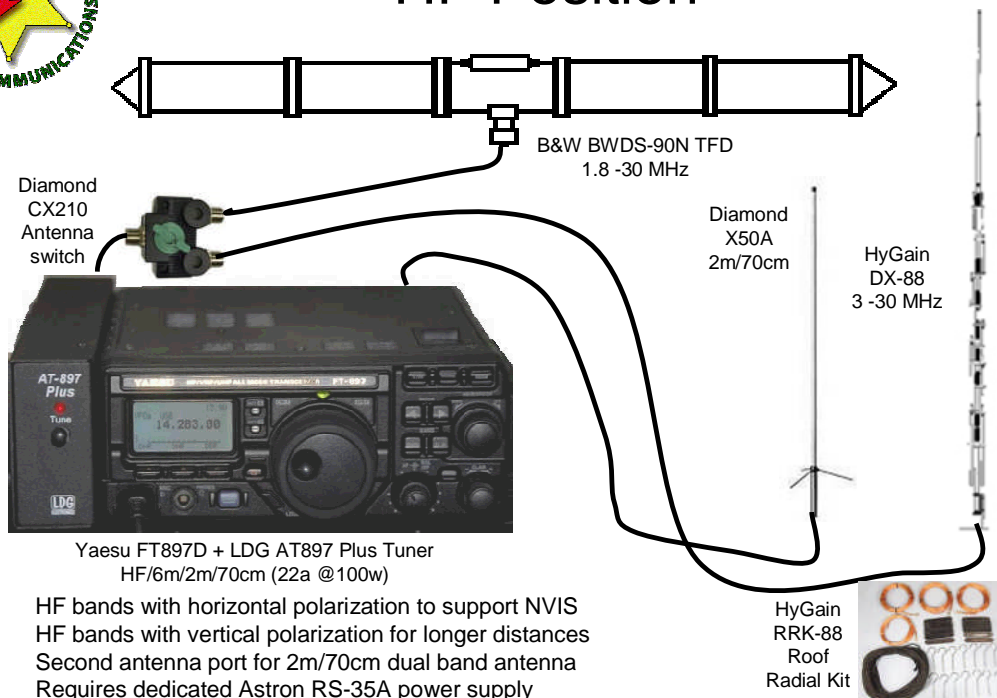


- Radios are in place attached to single band antennas.

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HF Position



- HF bands with horizontal polarization to support NVIS
- HF bands with vertical polarization for longer distances
- Second antenna port for 2m/70cm dual band antenna
- Requires dedicated Astron RS-35A power supply
- Radio and DX-88 in place, but not the tuner or other antennas

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