Galaxy DX Radios DX94HP

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Transmitter Alignment See Alignment Locations

SETTINGS	CONNECTION		ADJUST FOR
	Remove TP7-TP9 Jumper F		Mi op (Tr)
TX CARRIER OSCILLATORS: AM TX Mode Band E CH. 1	TP6	L25	LSB/TX mode: Adjust for 10.6975MHz 20Hz.
	Connect Frequency Counter to TP6	L24	USB/TX mode: Adjust for 10.6925MHz 20 Hz.
	Connect Frequency Counter to TP5	L23	AM/TX mode: Adjust for 10.6950MHz 20 Hz.
DRIVER BIAS: (IRF520 Vg) Set Radio to: Band E, Ch.1 Mode to USB MIKE GAIN at minimum.	Connect DC Ammeter between TP7 and TP9.	VR12	Key TX adjust for 100mA. Verify 3.80vdc max.on bare lead of resistor in L37.
FINAL BIAS: (IRF520 Vg) Set Radio to: Band E, Ch.1 Mode to USB MIKE GAIN at minimum	Connect DC Ammeter between TP7 and TP8. ****Warning**** Setting these adjustments are critical and exceeding the maximin voltage and current settings will cause damage to the transmitter and void the warranty.	VR10	Preset both VR10 & VR11 for zero mA in TX mode. Key TX & adjust for 100mA. Verify 3.65vdc max on bare lead of resistor in L34.
DE AMB QUAIN	Replace TP7-TP9 Jumper F		No. TV O a Part Consult No.
RF AMP CHAIN: Set mode to AM. Set RF power control fully clockwise.	Connect wattmeter to ANT output.	L44, L43, L42, L40,	Key TX & adjust (in order) fo maximum RF output . Recheck power across entire freq range. Re-adjust L44 for minimum
COD CADDIED DAI ANCE.	Connect waterstar to ANT	VD6	SSB distortion.
SSB CARRIER BALANCE: Set mode to USB Set RF power control fully clockwise MIKE GAIN to minimum.	Connect wattmeter to ANT output.	VR6	Key TX, adjust for min. carrie leakthrough on scope or wattmeter. Recheck on LSB mode. If necessary readjust for best balance of sideband suppression between LSB & USB
SSB APC: Set mode to USB Set RF power fully clockwise. MIKE GAIN to minimum.	Connect DC voltmeter from pcb ground to TP7	VR17	In TX, adjust for 12.5vdc
SSB ALC: Mode to USB. MIKE GAIN to maximum.	Connect wattmeter to ANT output.	VR13	In TX, adjust for 100 watts PEP.
nject two-tone audio signal of 700Hz and 1900Hz, 30 mV to Mic input.		L44	Adjust for minimum distortion on scope
AM CARRIER POWER: Set mode to AM,	Connect wattmeter to ANT output.	VR14	Set RF PWR fully clockwise adjust VR14 for 35 watts
MIKE GAIN at minimum. RF Power SW to HI.	CAUTION! Do not exceed power levels. Damage to power transistors and inability to achieve 100% modulation from insufficient audio power will result.	VR18	Set RF PWR fully counter clockwise. Adjust for 5 watts
RF METER: Set mode to AM, RF Power fully clockwise MIKE GAIN at minimum. Meter Switch to PWR	Connect wattmeter to ANT output.	VR9	Adjust so meter agrees with Wattmeter.
AMC: Mode to AM. RF Power fully clockwise MIKE GAIN to maximum. nject audio signal of 1KHz at B0mV to Mic input.	Connect modulation meter to ANT output.	VR16	Adjust for 100% modulation depth.
	RF Amp PCB (EPAC10010B) Ad		
Gate Voltage Adjust: Set MIC GAIN to minimum. SSB mode (either LSB/USB).	Connect DC voltmeter from Amp PCB ground to gate of Q5. Key radio.	VR2	4.00VDC
SWR Meter Adjust: Set MIC GAIN to minimum. Mode to AM.	Connect wattmeter / 50-ohm resistive dummy load to ANT output.	PWR Control	Adjust to max (35 watts).
Jnkey radio PWR/SWR/RB switch to SWR.	Remove 50-ohm dummy load and connect 100-ohm 100 watt load to radio antenna output connector.		
Key radio.		VR1	Adjust for 2:1 reading on radio SWR scale.
			NOTE: If a 100-ohm 100 wa load is not available just use 50-ohm dummy load and set VR1 for 1:1 on SWR scale.

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Disclaimer: Although the greatest care has been taken while compiling these documents, we cannot guarantee that the instructions will work on every radio presented.