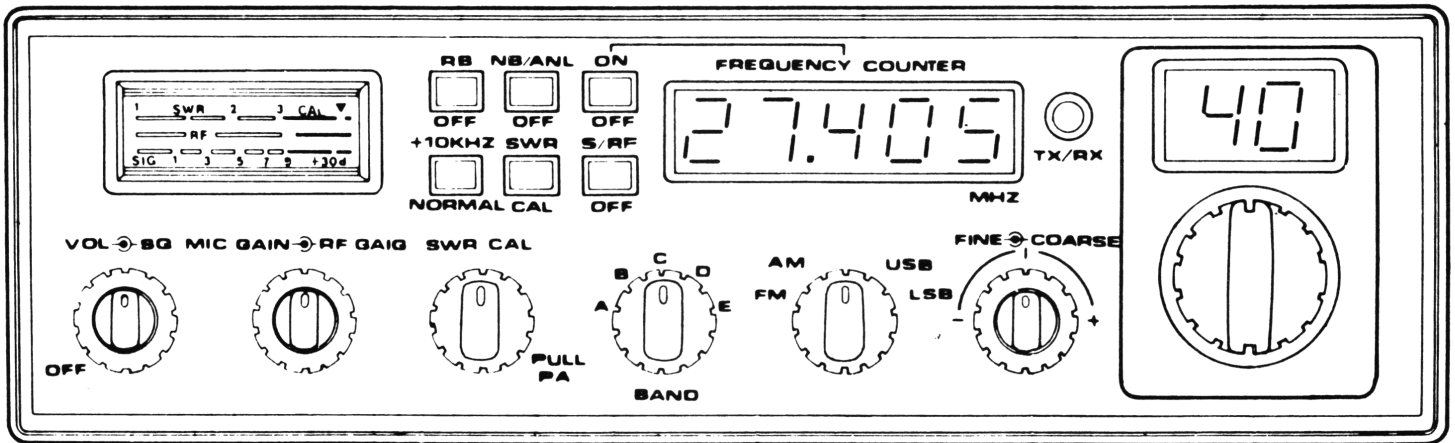


SUPER GALAXY (EXPORT)



'HIGH POWERED' AM/FM/SSB 200 Ch. Mobile. MC145106-PLL, Switchable Beep, +10KHz jump, 26.065-28.325MHz Fo Range, 5 digit Fo Counter, and dual clarifier.

Owner's Manual is very good (read it!); BUT; again - NO SCHEMATIC!

NOT TO WORRY; AS I HAVE HEARD THAT CERTAIN 'DEALERS' PROVIDE WITH UNIT IF YOU PURCHASE FROM THEM. SCHEMATIC WILL NOT BE PRINTED IN SECRET C.B.

Unit is basically an old Galaxy 2100 with some updates. Frequency Counter has been redesigned, and PCB altered to take the Grant-DX transmit design. "Why the CW function was left out of this unit I don't know? Hams love to find these units screwdrived to death, then change crystal to take it up to the 28-30MHz range."

OUT-OF-THE-BOX: S/N 000183. Cover (etch side) didn't mate up and bowed. Wrong type screw found in unit? (Flush vs regular round type.) Piece of tape also on covers with word SEAL on it (may be removed without tearing if careful. S/N tape was placed across both covers and rear of chassis? (I removed it also and placed on inside of cover next to speaker.) The THICK white insulators are back in fashion! Bridging board (T7, T8, T9); had the pins bent over towards VR8-check and straighten! On right rear of component side make sure collector of TR50 isn't shorting to nut of bolt going to chassis ground of TR51. In general check out and straighten things up before applying the power.

Power readings (out-of-the-box) at 27.185MHz, Fo Counter reading:

AM - 7W (modulation at max mike gain was 100%+)

FM - 6.9W (level of audio insufficient)

SSB - 4W at max mike gain?

Here's the real \_isser! Why use a 4 position mode switch and not change the front panel lettering to correspond. The lettering is set for the old 5 pos. switch. (The units with CW!)

Turned up power adjustments to maximum for a momentary RF Power output test:

AM - 13.7W, SSB - 20.0W.

SUPER GALAXY (EXPORT)...Cont.

Clarifiers dead center: 27.185 on counter, actual 27.185.8MHz (800Hz off).  
Max clarifiers (+10.3KHz), counter off by 300Hz.  
Min clarifiers (- 7.6KHz), counter off by 400Hz.  
Since this is only a 5 digit counter isn't of any real consequence; can be tightened up in an alignment; as all readings were high.

SWR calibration was excellent!

RF Power rolloff: Ref. 4W at center Fo; 2.8W at Min Fo; 3.9W at Max Fo.

?? Next to last digit in the Frequency Counter went out with approximately 1½ hrs of time on unit. ??

?? When replacing the covers noticed that not only didn't they mate up; BUT; were entirely painted/finished differently. ??

FOR ALIGNMENT PROCEEDURE: Compare Schematic/Alignment Section for each;  
PLL - use the Jackson alignment, PLL section.  
TRANSMIT - use the Grant-DX alignment, Transmit section.  
RECEIVE - use the Excalibur SSB alignment, Receive section.  
NOTE: Compare each section with both schematics as a guide.....

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SELECT-A-WATT OR DIAL-A-WATT

By Jim's CB Tech's & Frank Fournier

SELECT OR DIAL-A-WATT IS A METHODE OF DOING TWO THINGS. 1. Making a unit drive at the proper level to feed an amplifier while having a peaked unit when the amplifier is not being used. 2. A way of lowering the carrier level of a unit while maintaining all of the PEP swing of the audio.

Almost every AM unit has an anti-spiking diode on the output of the audio transformer. This is where the DC is fed to the driver and final. The reason it is there is to prevent the RF positive spikes