
BULLETIN MOTOROLA PRODUCT SERVICES

LAND MOBILE PRODUCT SECTOR PSB # 749 1301 E ALGONQUIN ROAD APC #
388 / 398 / 680 / 732 SCHAUMBURG, IL. 60196 Date: MAY, 1995 (708) 576-0180
EXPIRES: NOVEMBER 31, 1995

Subject: MSF 800 Transmit and Receive Synthesizer Lock Failures

MODELS AFFECTED: MSF 800 Mhz with internal frequency reference that were shipped in March 1995. Reference Serial Numbers of (3 8 8 C V E x x x x) thru (3 8 8 C V L x x x x) (3 9 8 C V E x x x x) thru (3 9 8 C V L x x x x) (6 8 0 C V E x x x x) thru (6 8 0 C V L x x x x) (7 3 2 C V E x x x x) thru (7 3 2 C V L x x x x) If you have an 800 Mhz MSF with one of these serial #s remove the uni-board to check the Date: code on the 14.4 Mhz reference oscillator KXN1124AA. Date codes from 9508-9513 inclusive are the only ones affected by this particular problem. All station power levels in the 800 Mhz band only are affected.

Problem: The internal frequency reference oscillator designator U381 on the uni-board may have an intermittent 14.4 Mhz output due to a fractured solder connection internal to the oscillator.

Symptom: Intermittent Tx and Rx synthesizer out of lock indication with possible sensitivity to shock/vibration and or temperature.

Solutions: 1) Replace 14.4 Mhz reference oscillator KXN1124AA (Motorola Part Number 48-82969P01) on the uni-board (TRN7199C, TRN7577A, and TRN7846A). 2) Perform station frequency alignment. 3) Verify power output, modulation compensation, and AGC setting is unaffected by the rework.

----- NOTE: KXN1124AA can be obtained at no charge by contacting the C&E Parts Department and referencing this Bulletin # 749. A charge of 3/4 hour labor per station plus travel time to the site is authorized by referencing this bulletin # and submitting the RO21-19 claim form. Tom Barnes 5/01/95 -----
