



Service Bulletin

SB81439-XX-00-19, Rev A

2101 Approach Plus GPS Navigation Systems, Part Numbers 81439-02-XXXX, 81439-03-XXXX, 81439-12-XXXX, 81439-32-XXXX, 81439-33-XXXX or 81439-42-XXXX,

Release of operating system –240Q.

SUMMARY: FreeFlight Systems has released software system –240Q for the 2101 Plus.

I. PLANNING INFORMATION

A. Effectivity

This Service Bulletin applies to the 2101 Approach Plus GPS Navigators, Part Numbers 81439-02-XXXX, 81439-03-XXXX, 81439-12-XXXX, 81439-32-XXXX, 81439-33-XXXX or 81439-42-XXXX, where XXXX equals the system operating software.

Installation of software version –240Q is optional, however FFS strongly encourages operators to incorporate the change, as it resolves the GPS week rollover Number event that occurred on April 6th, 2019. Without the “Q” update, the FreeFlight GPS Navigator Products (P/N’s referenced above) will compute an incorrect date when powered on after April 6, 2019.

Continued IFR operations after June/2009 will require software version -240M or later approved, in order to support the 4 MB Nav data bases.

Installation of software version –240Q also requires implementation of hardware service bulletin 81439-XX-34-14, if not previously performed.

B. Reason

This Service Bulletin advises all users of 2101 Approach Plus Navigators, Part Numbers 81439-02-XXXX, 81439-03-XXXX, 81439-12-XXXX, 81439-32-XXXX, 81439-33-XXXX or 81439-42-XXXX, of the availability of a revised operating system, -240Q.

The following change has been incorporated into software version –240Q:

- UTC Date and time will be reported correctly by the Navigator on the “System Status” Page
- Serial data outputs will report correct date and time.
- Navigation database expiration auto check will correctly notify the operator or installer to update the database every 28 days once expired.

C. Description

This service bulletin provides information for system release 240Q. Operating system –240Q is loaded at the factory. See Section III. ACCOMPLISHMENT INSTRUCTIONS for instructions on sending the systems for upgrade to the factory.

D. Approval

Operating software version –240Q is a minor modification to version –240P, which was previously approved under TSO C129 (A1). 2101 installations that have been FAA approved with software programs other than –240x must be reevaluated when software version –240Q is installed.

E. Manpower

The following man-hour estimates are based on incorporation concurrent with an unscheduled repair or during routine maintenance:

Units	Compliance	Man Hours
All RDUs	During Routine Maintenance	0.5
All RDUs	During Repair	0.5

F. Weight and Balance

None

G. Electrical Load Data

Not Affected

H. Reference

ECN S19002 and ECN 15147

I. Other Publications Affected

None

J. Interchangeability and Identification

Modified and unmodified units are not interchangeable.

2101 Approach Plus GPS Navigation Systems having operating system –240Q shall be identifiable by the Identification label on the top of the unit, bearing part number 81439-XX-240Q.

II. MATERIAL INFORMATION

A. Price and Availability

Contact FreeFlight Systems for price and availability at time of purchase.

Customers must send Navigators to the FreeFlight Factory Service Center; or they may send units for installation of this software upgrade.

Modifications accomplished at the Factory Service Center will be completed within fifteen (15) working days after receipt of the unit, depending upon parts availability.

B. Parts List

Part Number	Qty	Nomenclature
SB81439-XX-00-19	1	This document.

C. Ordering Information

Operators of the 2101 Approach Plus wishing to upgrade their system may send the unit(s) FreeFlight Factory Service Center.

For FreeFlight Factory Service Center modification, send the Navigator and a purchase order requesting incorporation of Service Bulletin SB81439-XX-00-19 to:

FreeFlight Systems	Attn.: Repair Dept.
7333 Interstate 35 S.	Telephone 1 (254) 662-0000
Robinson, TX 76706 USA	Fax 1 (254) 662-9452

D. Warranty

This Service Bulletin does not affect the standard warranty of the unit from date of purchase. For units out of warranty, this modification will be covered for ninety (90) days.

III. ACCOMPLISHMENT INSTRUCTIONS

1. Disconnect the back connectors J1 from the 2101 Approach Plus
2. Remove 2101 Approach Plus from aircraft.
3. Return to FreeFlight Systems Service Center for modification.