



SERVICE BULLETIN

S.B. NO. TR-220 01/2019

Software Changes for Test Sets Containing Software Revision 5.00 or Greater

TR-220 Multi-Function Test Sets

Date of Service Bulletin

FEB 02/27

REASON:

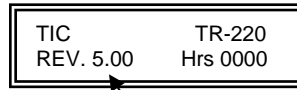
To alert owners and operators of the Tel-Instrument Electronics Corp. TR-220 Multi-Function Test Sets of a software change available.

Tel-Instrument Electronics Corp periodically updates the software and hardware to reflect customer requests, add enhancements, or to correct minor deficiencies. A new software release for the above mentioned Test Set will correct an error where the TR-220 improperly decodes the 6,2 – Type 29 Target State and Status Message.

1. EFFECTIVITY

This Service Bulletin applies to all TR-220 Test Sets with software revision **5.00 or greater** only.

Operators can verify the internal software revision installed by turning *ON* the Test Set and observing the *START PAGE*, which is momentarily displayed on start up.



Software Revision

If your Test Set display indicates software revision **5.00 or greater**, the Test Set is eligible for the upgrade. All other software revisions lower than **5.00** are not eligible for this upgrade.

2. SYNOPSIS/PURPOSE

This Service Bulletin describes the reported issue and instructions on how to have the Service Bulletin installed.

- a) Tel-Instruments has identified an error in the display of ADS-B OUT data. The TCAS Operational bit and RA Active bit were being decoded from BDS register 6,2. In cases where BDS register 6,2 was not being transmitted by the aircraft, erroneous data was being displayed. The new software decodes these bits from BDS register 6,5. This register is always transmitted by ADS-B OUT aircraft and eliminates the possible erroneous display.

3. CORRECTIVE ACTION

Work to be performed requires the replacement of the preprogrammed memory chip containing the current software revision.

All Test Sets with version 5.00 or greater will be upgraded to software revision **5.60**.

Field Kits will **NOT** be made available and all work must be performed by Tel-Instrument Electronics Corp or a "**CERTIFIED**" repair facility.

It is recommended that this Service Bulletin be installed during the Test Sets next scheduled calibration. If an owner/operator desires to have the upgrade incorporated before the next calibration cycle, calibration charges will still be charged. See paragraph "a" for procedures and locations of our Certified Repair Centers.

a) **PROCEDURES**

Print a copy of this Service Bulletin and ensure a copy is sent with the Test Set when shipping. Test Sets should be sent to the following CERTIFIED Service Centers for upgrade

Conus: **Express Calibration Services**

1803-5 SW Market Street
Lee's Summit, MO 64082
816-246-9292
custsvc@expresscal.com

Europe: **Muirhead Avionics**

3 Square One Heathrow
Southall Lane
Southall
UB2 5NH
United Kingdom
[+44] 20-8571-3422
[+44] 20 8843 6902 (fax)

All other regions should send their test sets directly to:

Tel-Instrument Electronics Corp.

One Branca Road
East Rutherford, NJ 07073

4. **APPLICABLE FEES**

There will be no fee associated with this Service Bulletin when the Test Set is returned for annual calibration and certification. The software will be automatically updated during the annual maintenance.

All shipping, customs and broker fees are the responsibility of the owner/operator. Additional charges may apply if repairs are required; an estimate of repair will be sent to each customer for approval before any repair above and beyond the software upgrade is completed. Standard Calibration and Alignment fees will be applicable.

Please Contact your Distributor or Tel-Instrument for pricing.

5. **COMPLIANCE**

Installation of this Service Bulletin is recommended at the next calibration cycle and is mandatory for all TR-220's utilizing software revision 5.00 or greater.

6. **PUBLICATIONS AFFECTED**

Publication is not affected.

7. **FURTHER INFORMATION**

You may contact Tel-Instrument Electronics Corp. at any time for further information regarding this procedure and change.

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