

# WORLDSID-50M IR-TRACC YOKE & BRACKET UPDATE

## Service Bulletin



May 2020

Humanetics is now offering an improved 2D IR-TRACC mounting for the WorldSID-50M to increase the range of motion for far-side testing in updated Euro NCAP protocols.

### Background

#### EURO NCAP FAR-SIDE TESTING

In the latest update to the Euro NCAP Far Side Occupant & Assessment Procedure (Version 2.0, June 2019), occupant-to-occupant protection is evaluated to demonstrate countermeasures for head protection in occupant interaction. The protocol uses a WorldSID-50M in the far-side seating position. It is worth noting that the WorldSID-50M was designed to be used in near-side tests. With the introduction of the new far-side application, damage to WorldSID-50M ATDs have been increasingly seen in the field. Humanetics has been actively working to develop design solutions that meet the performance criteria of near-side testing, but are also robust enough for use in far-side testing since the EuroNCAP far-side assessment will become an integral part of the rating for all vehicles launched in 2020 onwards.

### Damage to IRTRACC potentiometer base

#### REAL WORLD TEST OBSERVATIONS

It has been observed that far-side test conditions induce larger rib vertical motion on the WorldSID-50M ribs, resulting in deformation to the potentiometer base (p/n #3700-03) (Figure 1).

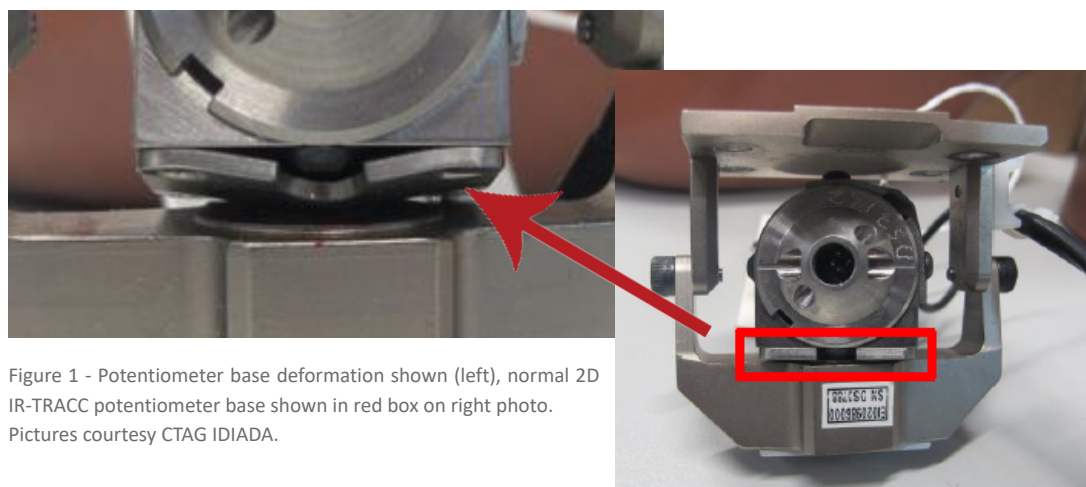
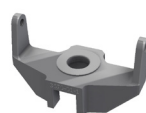


Figure 1 - Potentiometer base deformation shown (left), normal 2D IR-TRACC potentiometer base shown in red box on right photo. Pictures courtesy CTAG IDIADA.

### Solution

#### UPDATED COMPONENTS

To eliminate damage to the potentiometer base, the yoke, thorax/ab bracket, and potentiometer cover were modified to allow for an additional 11 degrees of rotation of the 2D IR-TRACC. The new parts are direct replacements for the current components; all screw holes and the potentiometer are exactly in the same position as before.



Component	Current P/N	Updated P/N
Yoke	3670-01	3670-01-1



Component	Current P/N	Updated P/N
Bracket, Thorax/Ab	3670-22	3670-22-1



Component	Current P/N	Updated P/N
Cover, Potentiometer	3670-03	3670-03-1

#### AVAILABILITY

Currently the new Humanetics IR-TRACC parts are available to order as optional spare components for installation in WorldSID-50Ms used in far-side testing.

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