§ 572.167 Test conditions and instrumentation.

The test conditions and instrumentation are as specified in 49 CFR 572.127 (Subpart N).

Figures to Subpart S of Part 572
FIGURE S1
THORAX IMPACT TEST SET-UP SPECIFICATIONS

IMPACT PROBE SUPPORT CABLES

PENDULUM ACCELEROMETER MOUNTED WITH SENSITIVE AXIS PARALLEL TO PENDULUM LONGITUDINAL CENTERLINE

IMPACT PROBE WEIGHT INCLUDING ALL INSTRUMENTATION AND 1/3 OF SUPPORT CABLE WEIGHT* 2.86±0.02 kg (6.3±0.05 lb)

COMPLETE ASSEMBLY (167-0000)

PELVIC ANGLE ** 8° ±1° FROM HORIZONTAL (127-3012)

CENTERLINE OF IMPACT PROBE IS 12.7±1mm (0.5±0.04in) BELOW HORIZONTAL CENTERLINE OF THIRD RIB

* 1/3 CABLE WEIGHT NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT
** PELVIS LUMBAR JOINING SURFACE
FIGURE S2
TORSO FLEXION TEST SET-UP SPECIFICATIONS

ATTACH LOADING ADAPTER BRACKET TO MACHINED SURFACE (127-8000, DETAIL IN 127-2022) WITH FOUR 6-32 SCREWS TO MATCH THE POINT OF LOAD APPLICATION WITH THE LEVEL OF THE UNDISTURBED NECK OCCIPITAL CONDYLE PIVOT AXIS

COMPLETE DUMMY ASSEMBLY (167-0000)

ATTACH PELVIS (REF. 127-3012) TO TABLE MOUNTED FIXTURE WITH FOUR 1/4-20 x 1/2" BOLTS

PELVIS-LUMBAR JOINING SURFACE HORIZONTAL ±1°

VERTICAL

INITIAL POSITION OF ANGLE REF. PLANE

FINAL POSITION OF ANGLE REF. PLANE 45°

PIVOT PIN (78051-339 REF.)

LOAD CELL

PULL CABLE

31.8mm (1.25in)

175.5mm (6.91in)

90.4mm (3.56in)

CENTERLINE OF PIVOT PIN

METAL TABLE

COMBINED WEIGHT OF LOAD CELL, LOADING ADAPTER BRACKET, PULL CABLE AND ATTACHMENT HARDWARE ≤ 0.77 kg (1.7 lb)