§ 572.166 Knees and knee impact test procedure.

The knee assembly is assembled and tested as specified in 49 CFR 572.126 (Subpart N).
FIGURE S1
THORAX IMPACT TEST SET-UP SPECIFICATIONS

- Impact probe support cables
- Pendulum accelerometer mounted with sensitive axis parallel to pendulum longitudinal centerline
- Complete assembly (167-0000)
- Pelvic angle **8° ± 1° from horizontal (127-3012)
- Centerline of impact probe is 12.7 ± 1 mm (0.5 ± 0.04 in) 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°

INITIAL POSITION OF ANGLE REF. PLANE

VERTICAL

32° MAX.

FINAL POSITION OF ANGLE REF. PLANE 45°

PIVOT PIN (78051-339 REF.)

LOAD CELL

PULL CABLE

METAL TABLE

CENTERLINE OF PIVOT PIN

90.4mm (3.56in)

175.5mm (6.91in)

31.8mm (1.25in)

LOADING ADAPTER BRACKET (TYPICAL)

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