the initial torso orientation angle may not exceed 32 degrees.


§ 572.166 Knees and knee impact test procedure.

The knee assembly is assembled and tested as specified in 49 CFR 572.126 (Subpart N).

§ 572.167 Test conditions and instrumentation.

The test conditions and instrumentation are as specified in 49 CFR 572.127 (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

ALL RIBS HORIZONTAL

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

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)

* 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.

- Final position of angle ref. plane 45°.

- Pivot pin (78051-339 ref.).

- Load cell.

- Pull cable.

- Centerline of pivot pin.

- Combined weight of load cell, loading adapter bracket, pull cable and attachment hardware ≤ 0.77 kg (1.7 lb).